TABLE OF CONTENTS

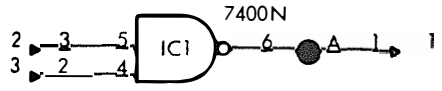
RCLM400 PCBA CIRCUIT DIAGRAMS

RC 4000 Basic System

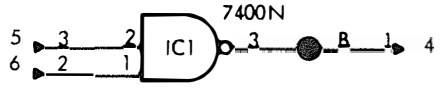
PCBA No.	Circuit on the PCBA	Dwg. No.
RC0862-1	2 BD401	V10113
RC0863-1	1 BG404	V10124
RC0868-1	1 AL402	V11879
		V11880
RC0869-1	1 BG406	V11889
RC0870-1	1 BA402	V10190
RC0871-1/	4 CB401	~~V11762~~ V12170
RC0872-1	19 DG402	V11061
RC0878-1/	1 SA401	V12010
RC0879-1	1 CC402	V12035
RC0880-1	1 DD404	V12007
		V12008
RC0883-1	3 DF401	V11058
RC0884-1	9 BA403, 1 AA405	V11504
RC0886-1	2AJ406	V11558
		V11559
RC0886-2	2 AJ405	V12009
RC0888-1/	1 CC404	V11441
RC0889-1/	8 DG404	V11577
RC0890-1	11 DB402, 1 DB403	V10460
RC0891-1	12 DC402	V11563
RC0892-1	5 DA405	V11890
RC0893-2	1 FF402	
RC0893-3	1 FF403	
RC0894-1	4 DB404, 1 DB405	V11561
		V11560
RC0897-1	10 DC405	~~V11503~~ V 12300
RC0898-1	1 DB406	V11998
RC0899-1	19 DC404	~~V20477~~ V 11891
RC0900-1/	4 CA401	~~V11556~~ V 12167
RC0901-1	1 AJ408	V10927
RC0902-1	1 BD403	V11883
		V11884
RC0903-1/	1 AJ407, 1 BG407, 1 CC406	V10953
		V12036
RC0905-1	12 DD406	V11114
RC0906-1	6 FB401	V11151

PCBA No.	Circuit on the PCBA	Dwg. No.
RC0907-1	1 FF403, 1 FF404, 1 FF405,	
	1 DD408, 2 DD407, 1 CA402,	
	1 DD409	V12037
RC0909-1/	6 CB402	V11152
RC0911-1/	1 SA402, 1 CA403, 1 BC401	V11885
		V11886
		V11887
RC0913-1	8 DD405	V11876
RC0926-1	13 DB407	V12006
RC0927-1	13 DC406	V11893
RC0928-1	1 CC407	V11894
RC0929-1	1 BF402	V11506
		V11507
		V11508
RC0932-1	12 DB408	V11895
RC0932-2	6 DB408, 6 DC407	V11896
RC0933-1	8 DB409	V11696
RC0934-1	3 BF403	~~V11898~~ V12168
RC0935-1	3 BD404	~~V11897~~ V12169
RC0936-1	18 DC408	V11899
RC3032-1	12 AD401	A20276

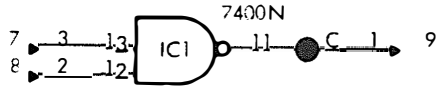
Circuit A



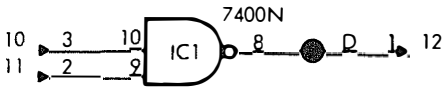
Circuit B



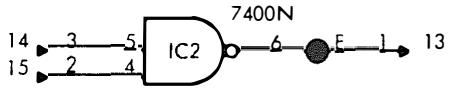
Circuit C



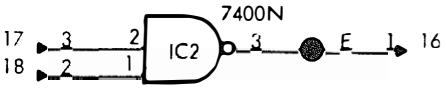
Circuit D



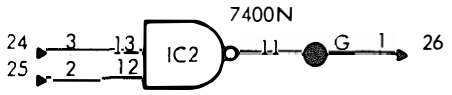
Circuit E



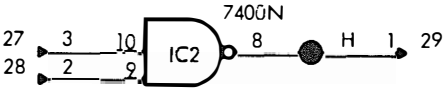
Circuit F



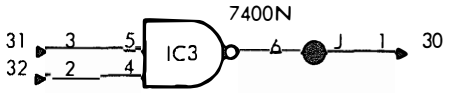
Circuit G



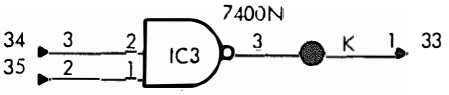
Circuit H



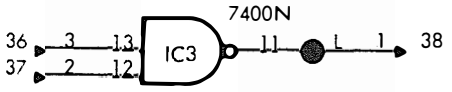
Circuit J



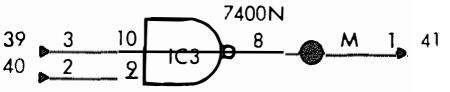
Circuit K



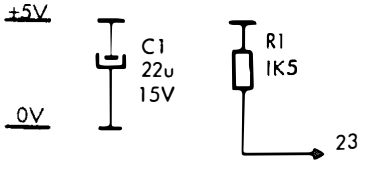
Circuit L



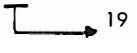
Circuit M



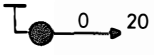
Circuit N



Circuit P

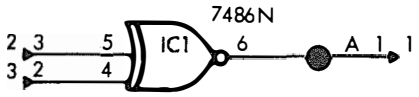


Circuit R

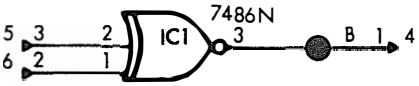


POWER REQUIREMENTS		
+5 V	PIN. 22	40 mA
0 V	PIN. 21	
POWER DISSIPATION: 210 mW		

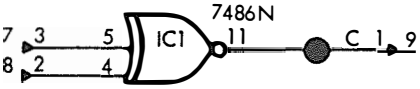
Circuit A



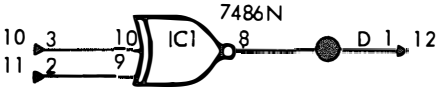
Circuit B



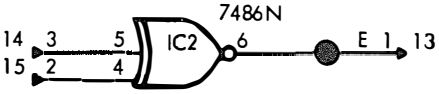
Circuit C



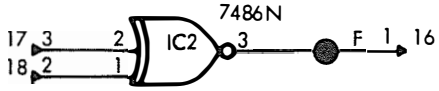
Circuit D



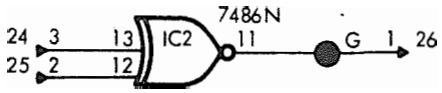
Circuit E



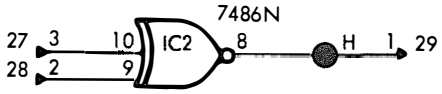
Circuit F



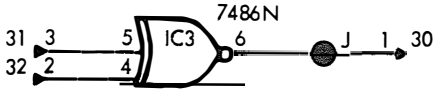
Circuit G



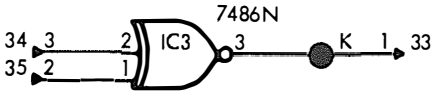
Circuit H



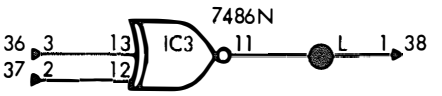
Circuit J



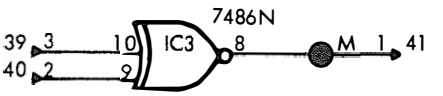
Circuit K



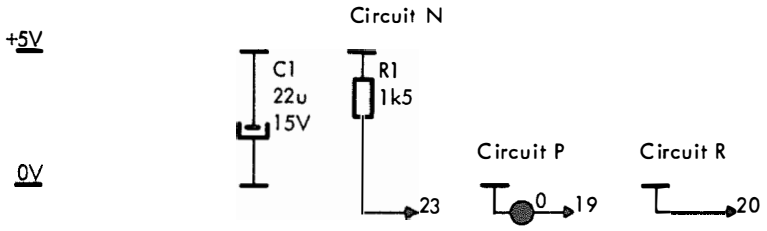
Circuit L



Circuit M

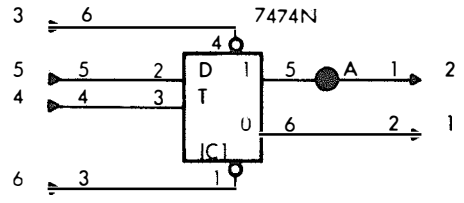


Circuit N

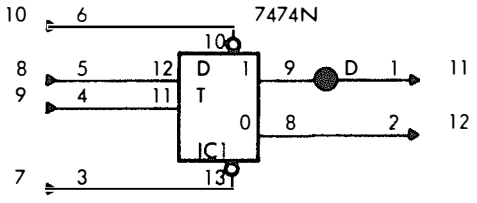


POWER REQUIREMENTS		
+5V	PIN22	150mA
0V	PIN21	
POWER DISSIPATION 790mW		

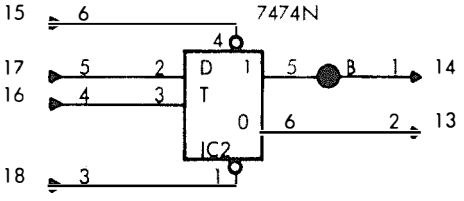
Circuit A



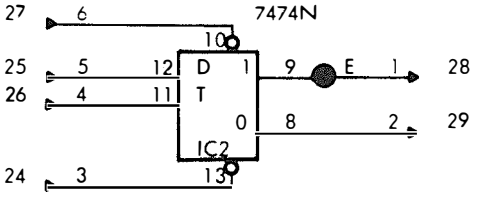
Circuit D



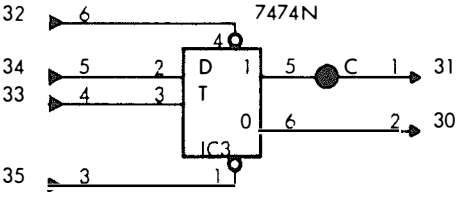
Circuit B



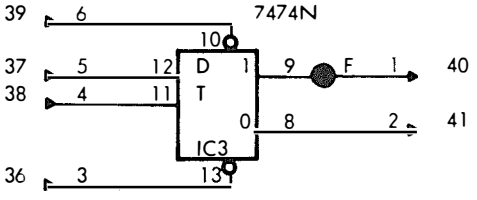
Circuit E



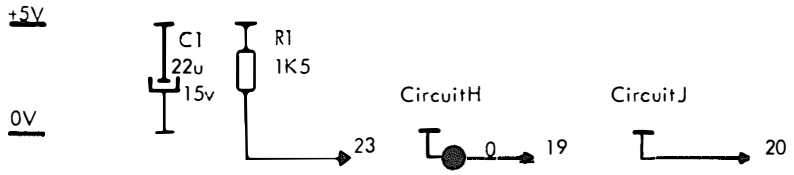
Circuit C



Circuit F



Circuit G



POWER REQUIREMENTS		
+5 V	PIN. 22	57 mA
0 V	PIN. 21	
POWER DISSIPATION: 295 mW		

RCLM 400

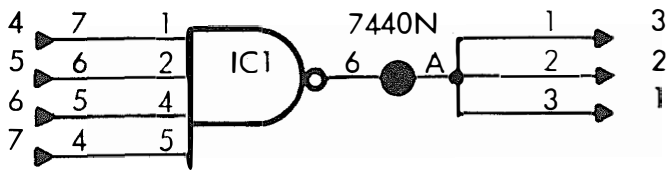
V20681

PCBA Circuit Diagram

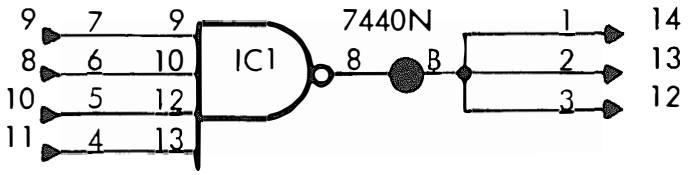
5AC404

RC0836 - 1

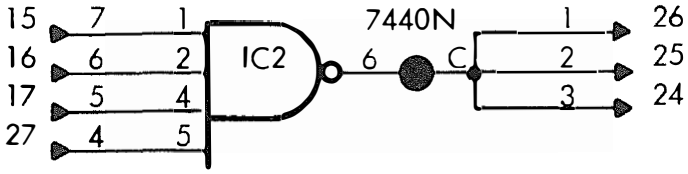
Circuit A



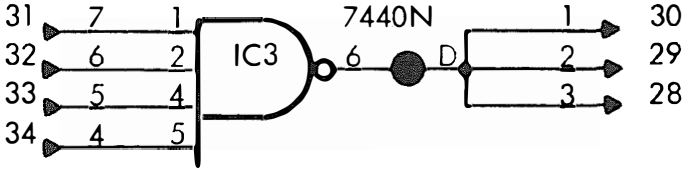
Circuit B



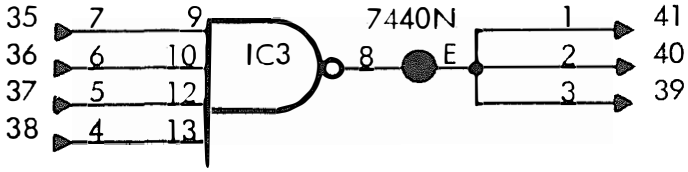
Circuit C



Circuit D

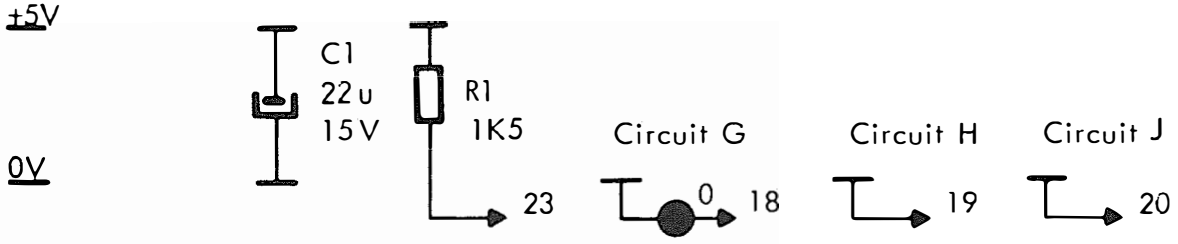


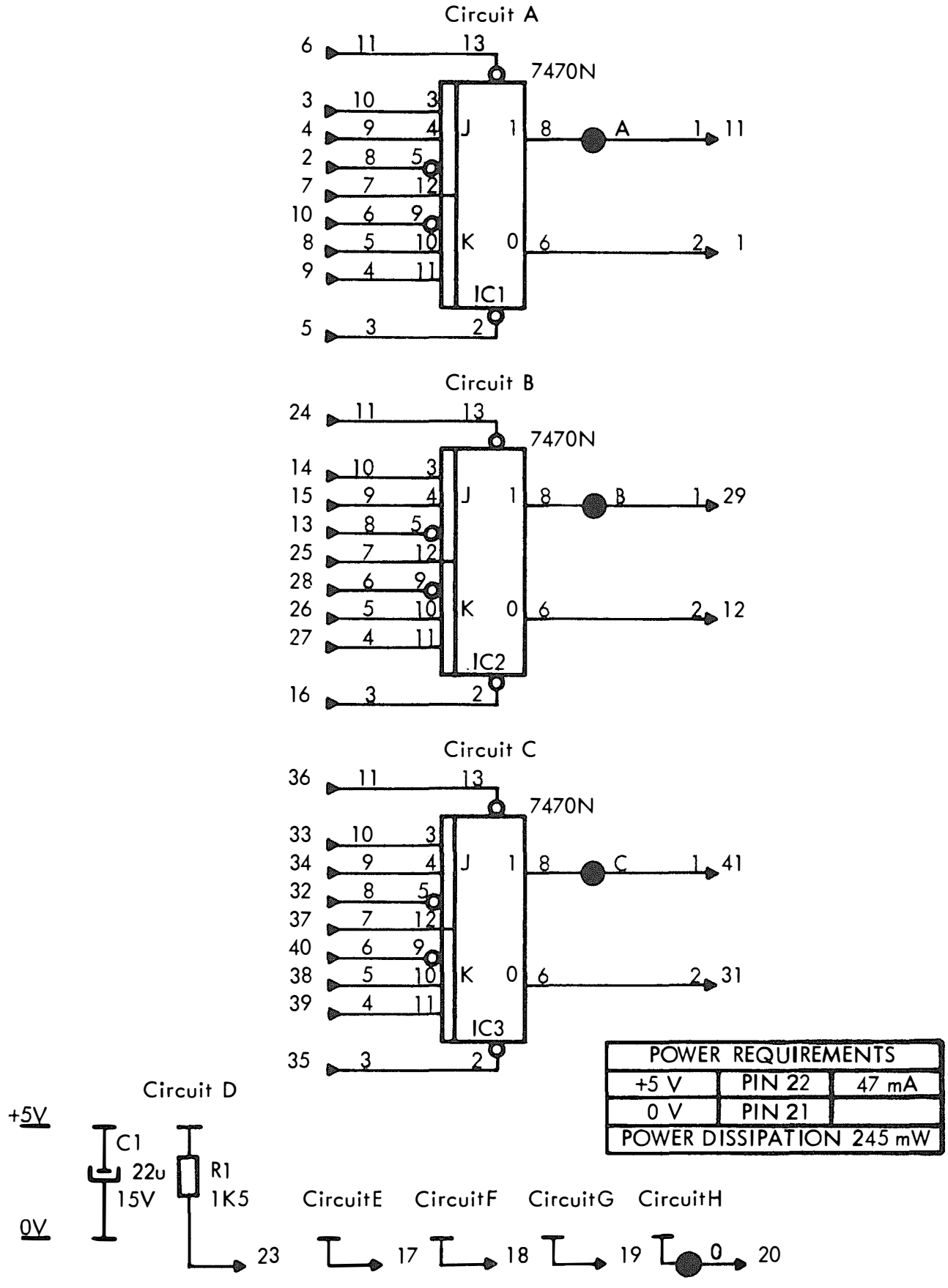
Circuit E



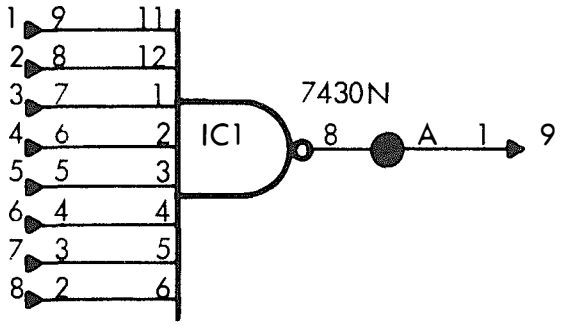
POWER REQUIREMENTS		
+5V	PIN 22	50 mA
0V	PIN 21	
POWER DISSIPATION 260 mW		

Circuit F

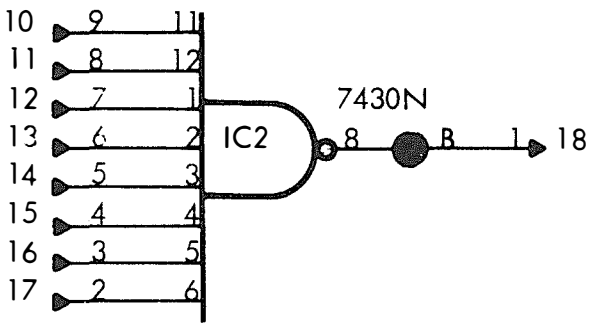



Circuit A
7470N
IC1
J
K
A
Circuit B
7470N
IC2
B
Circuit C
7470N
IC3
C
POWER REQUIREMENTS
+5 V
PIN 22
47 mA
0 V
PIN 21
POWER DISSIPATION 245 mW
Circuit D
+5V
0V
C1
22u
15V
R1
1K5
CircuitE
CircuitF
CircuitG
CircuitH

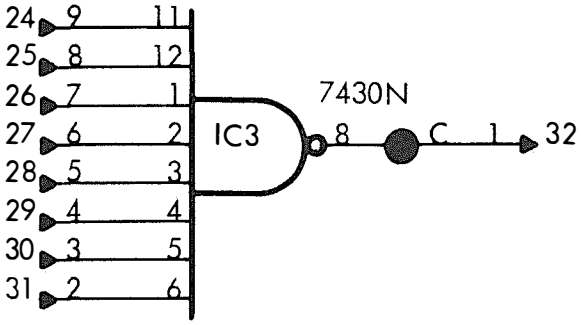
Circuit A



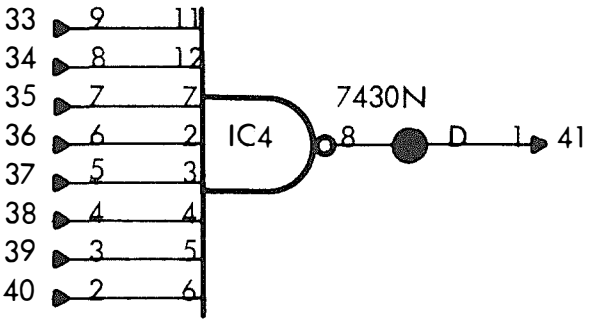
Circuit B



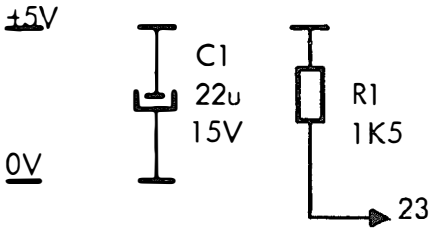
Circuit C



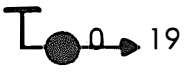
Circuit D



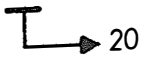
Circuit E



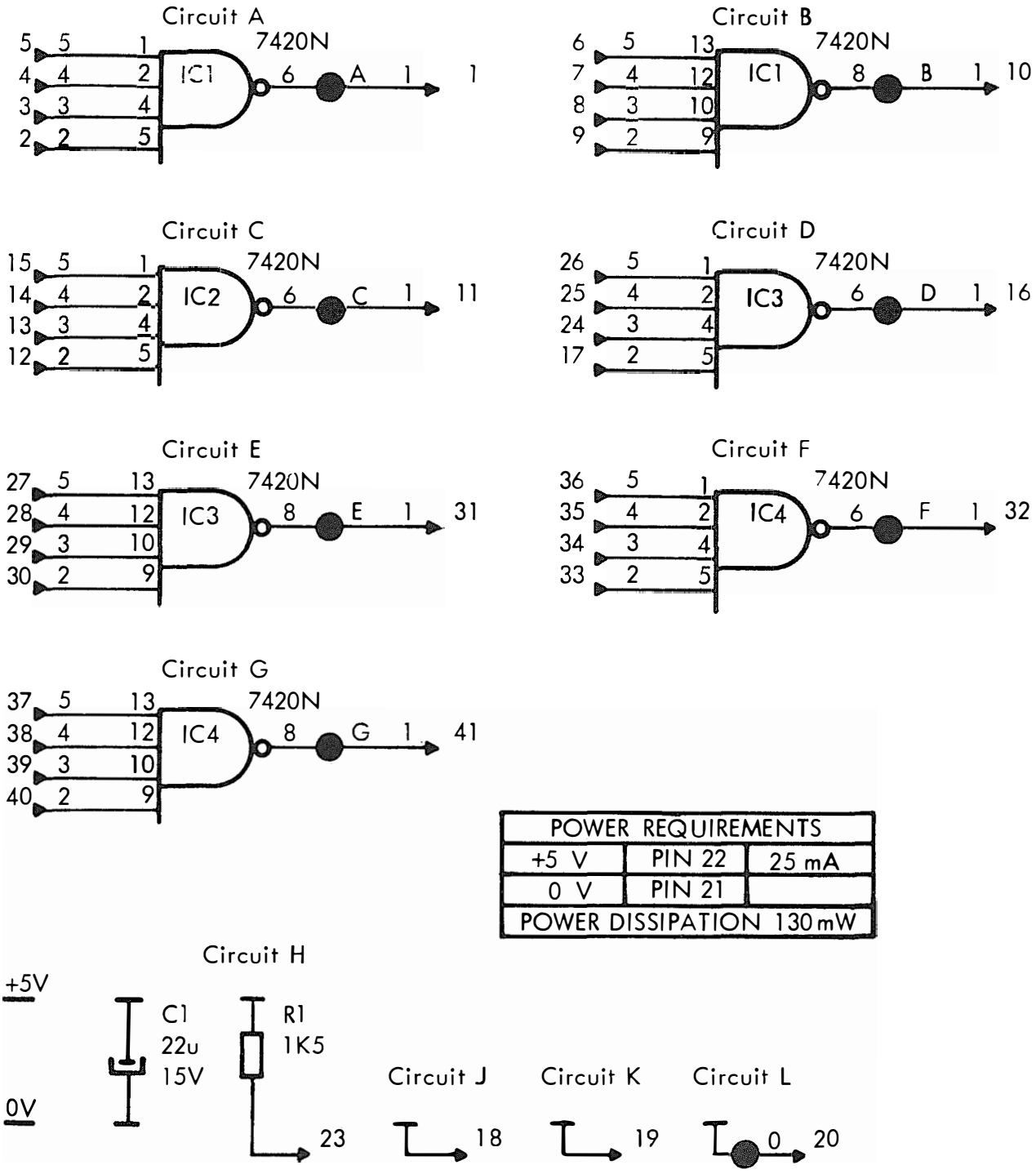
Circuit F

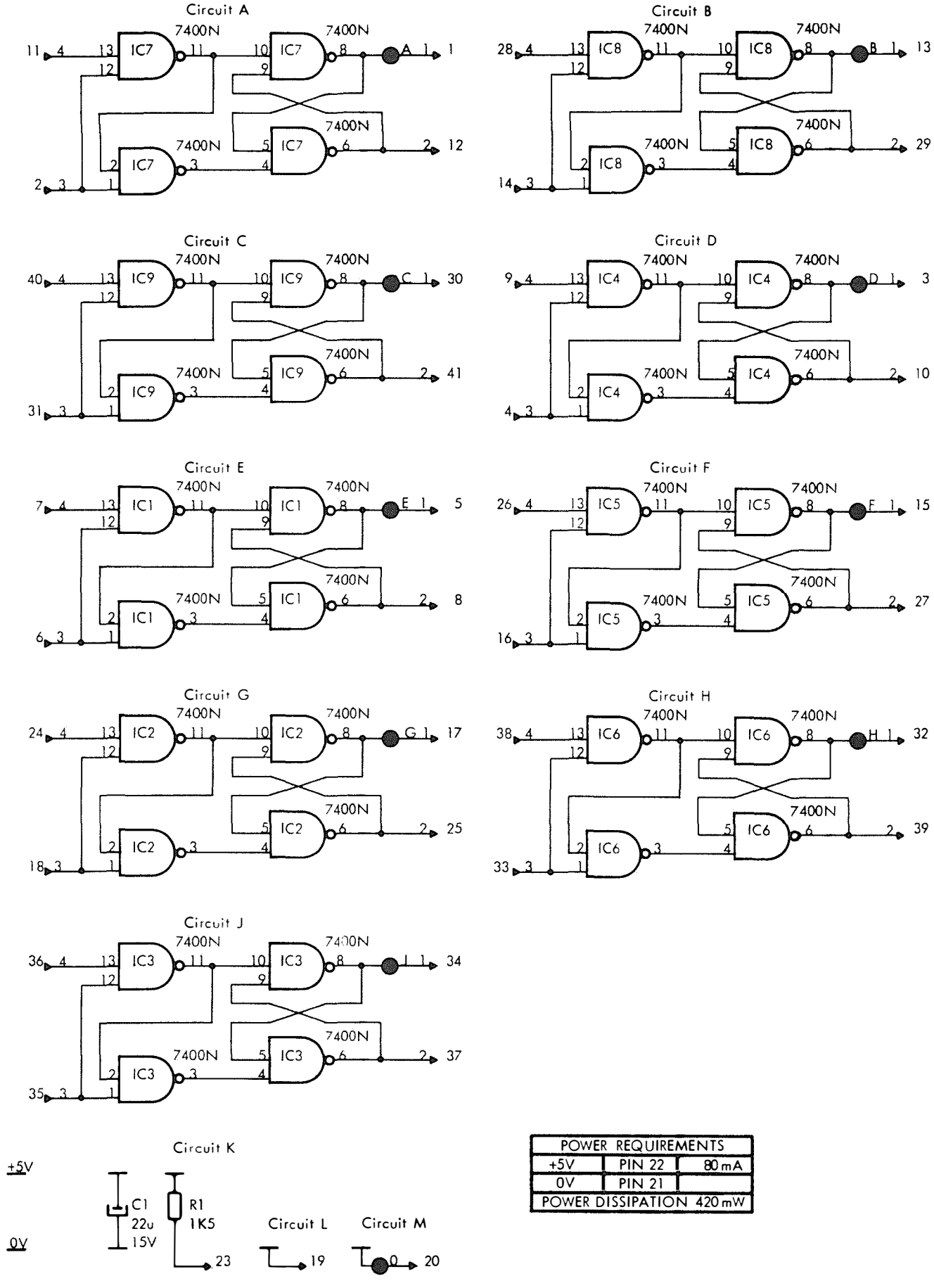


Circuit G

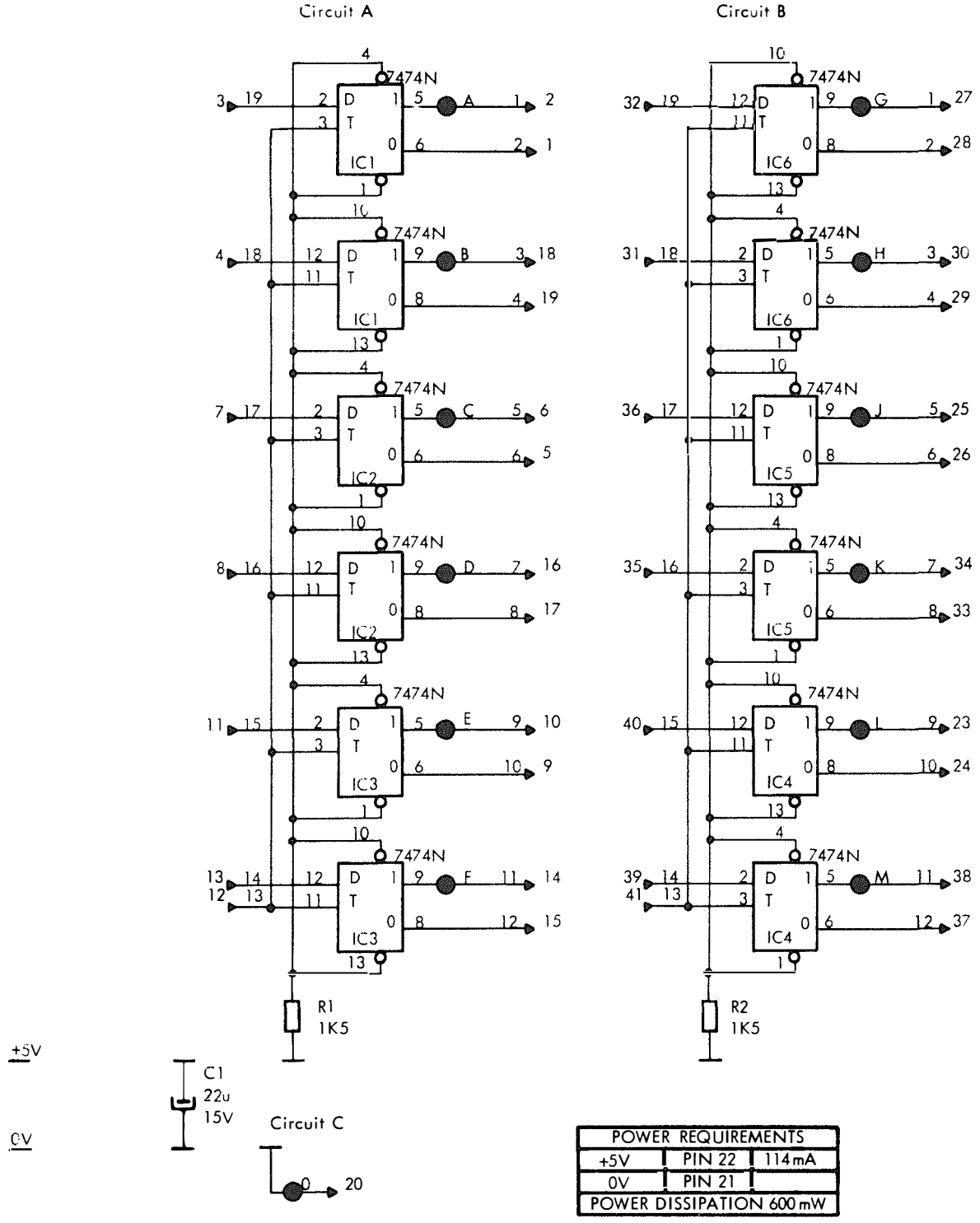


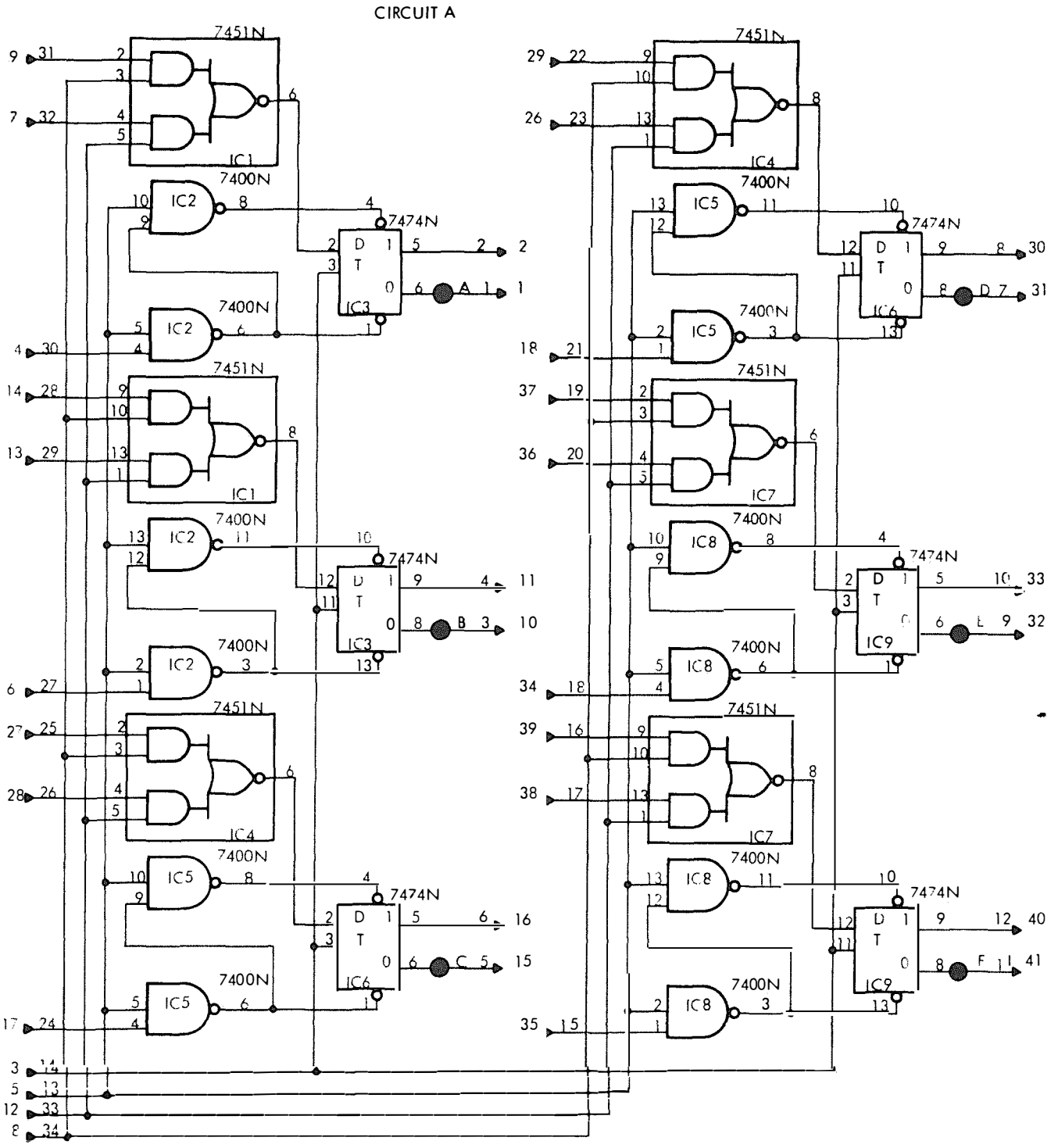
POWER REQUIREMENTS		
+5V	PIN 22	14 mA
0V	PIN 21	
POWER DISSIPATION 70 mW		


Circuit A
7420N
IC1
A
Circuit B
7420N
IC1
B
Circuit C
7420N
IC2
C
Circuit D
7420N
IC3
D
Circuit E
7420N
IC3
E
Circuit F
7420N
IC4
F
Circuit G
7420N
IC4
G
POWER REQUIREMENTS
+5 V PIN 22 25 mA
0 V PIN 21
POWER DISSIPATION 130 mW
Circuit H
+5V
0V
C1
22u
15V
R1
1K5
Circuit J
Circuit K
Circuit L

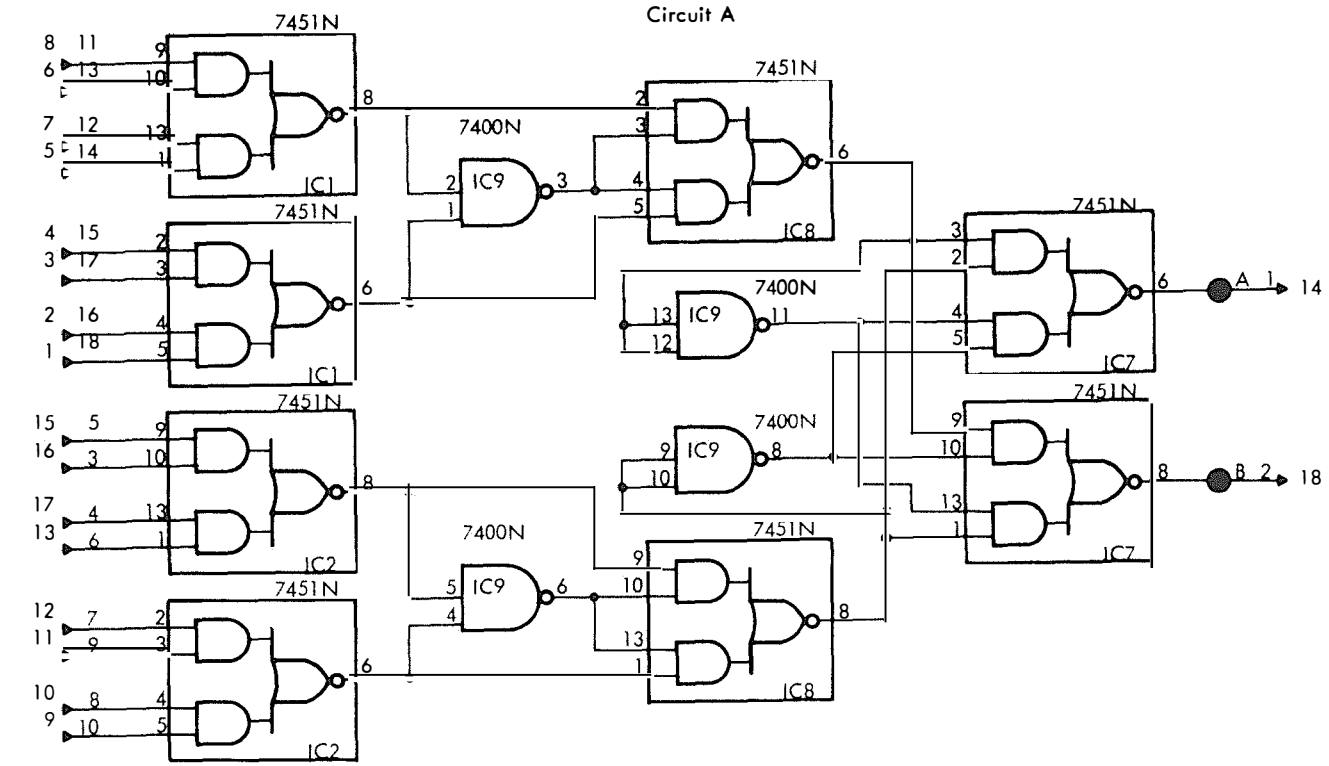


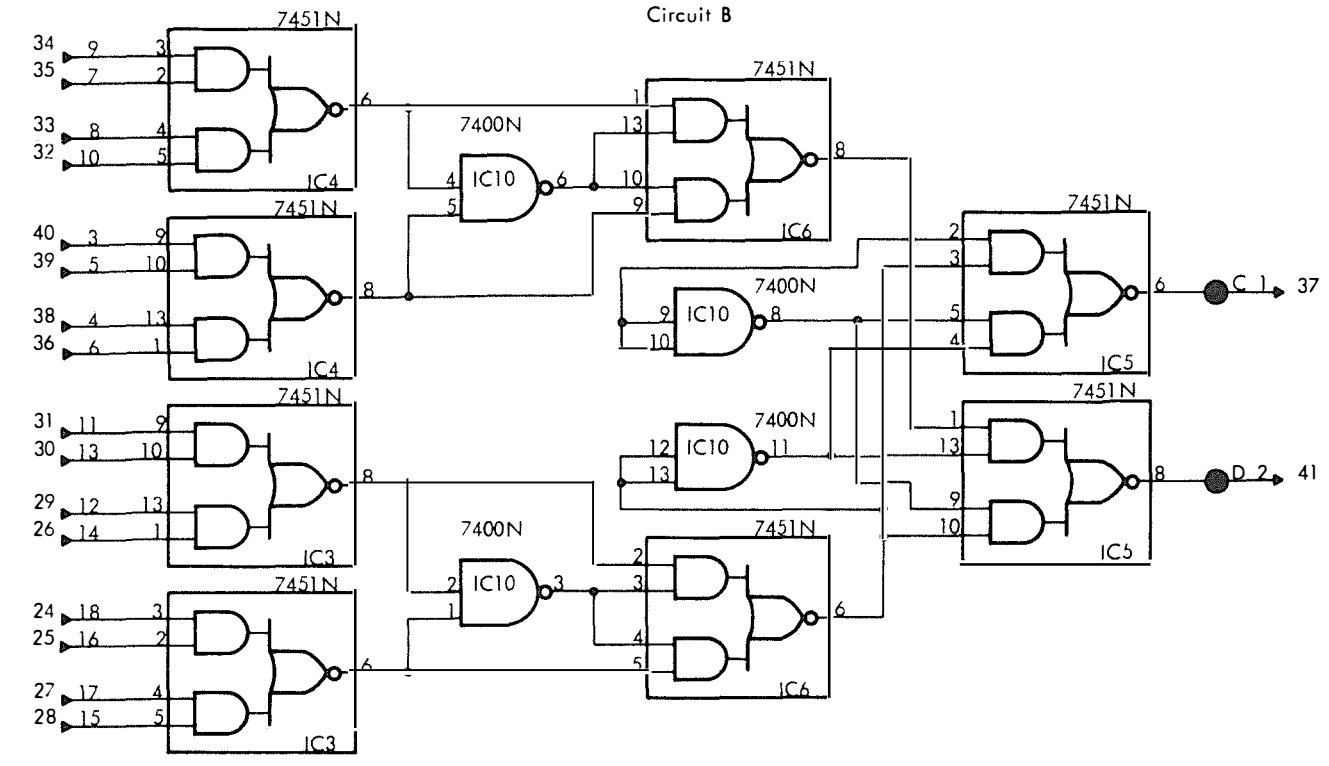
POWER REQUIREMENTS		
+5V	PIN 22	80 mA
0V	PIN 21	
POWER DISSIPATION 420 mW		


Circuit A
Circuit B
7474N
IC1
IC2
IC3
IC6
IC5
IC4
R1
1K5
R2
1K5
+5V
0V
C1
22u
15V
Circuit C
POWER REQUIREMENTS
+5V PIN 22 114mA
0V PIN 21
POWER DISSIPATION 600mW

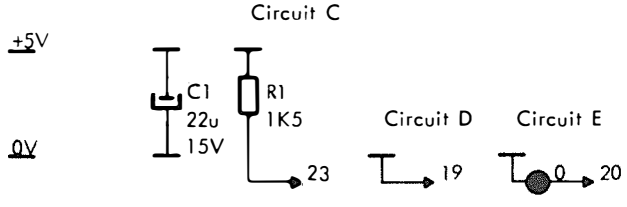


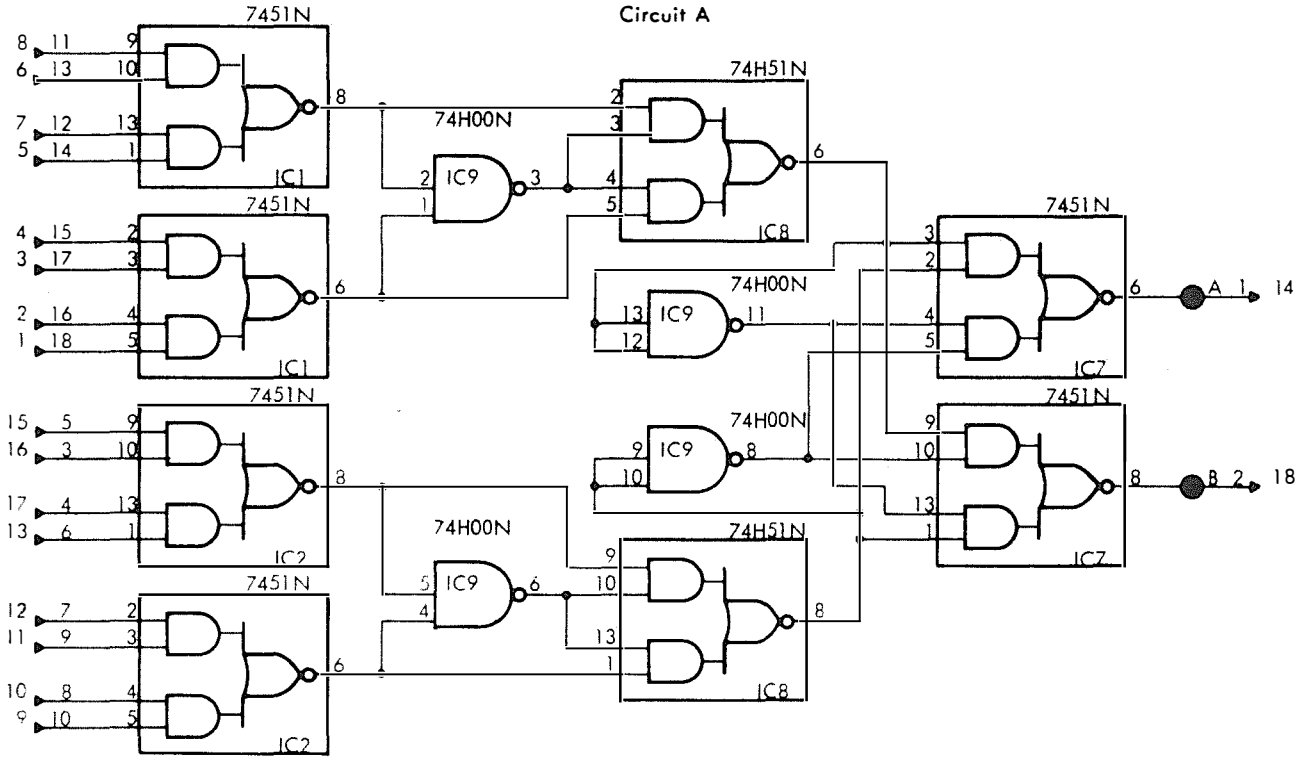
POWER REQUIREMENTS		
+5V	PIN 22	107 mA
0V	PIN 21	
POWER DISSIPATION 565mW		

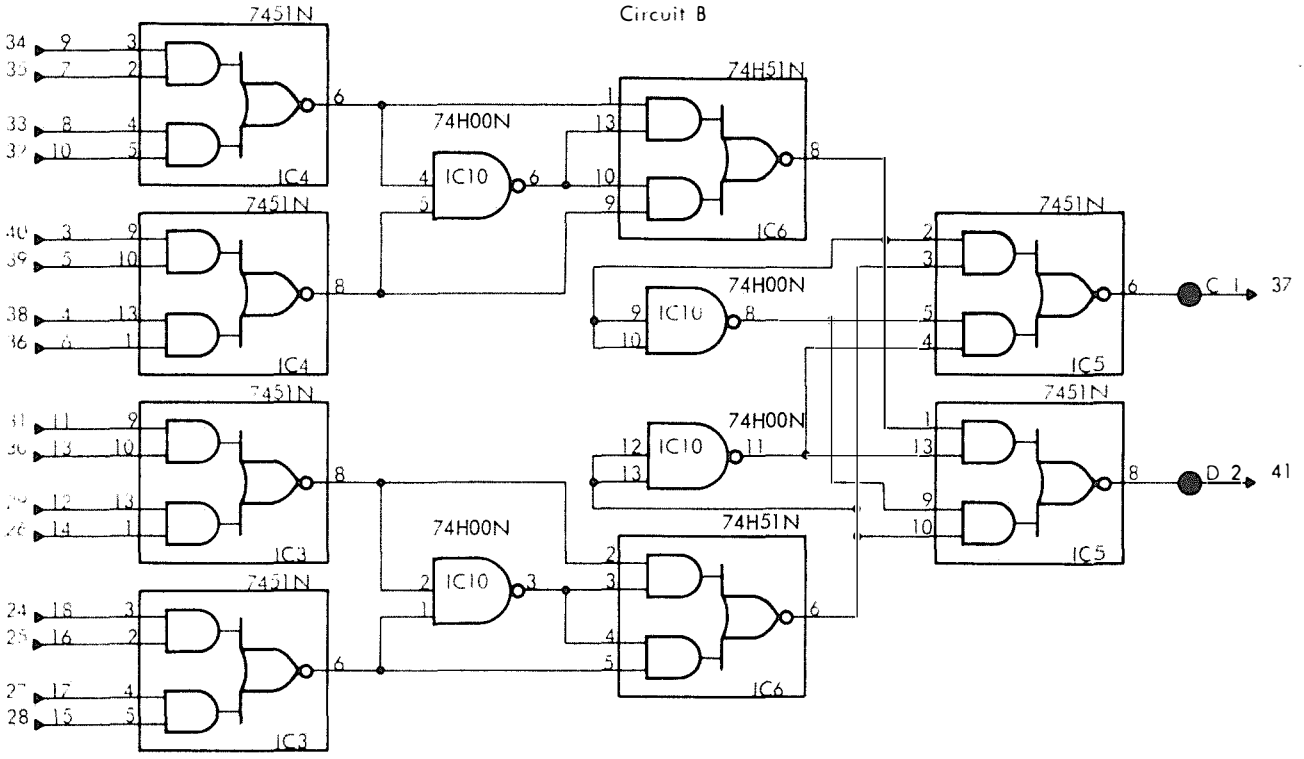


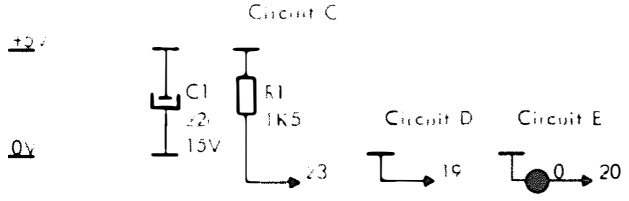


POWER REQUIREMENTS		
+5V	PIN 22	78mA
0V	PIN 21	
POWER DISSIPATION 470mW		

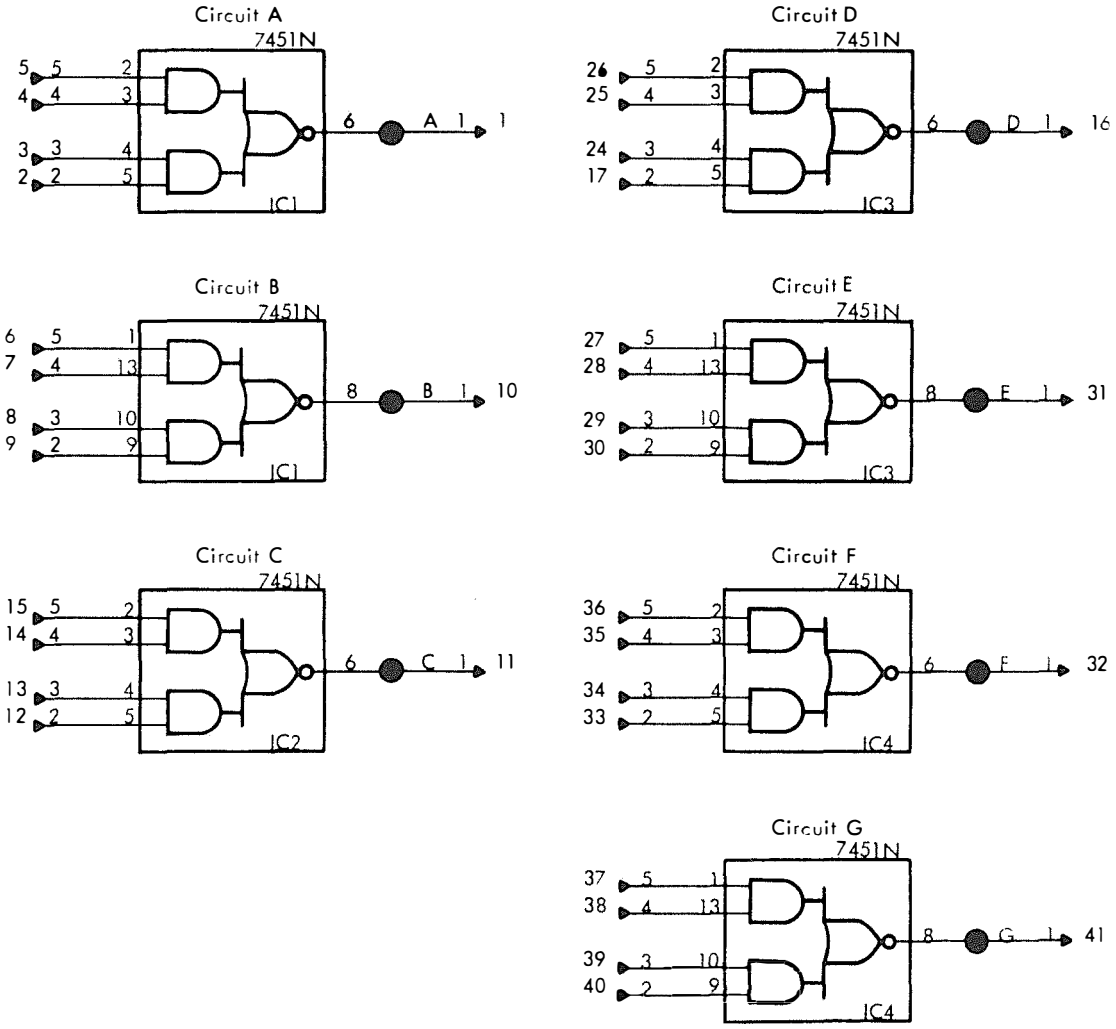


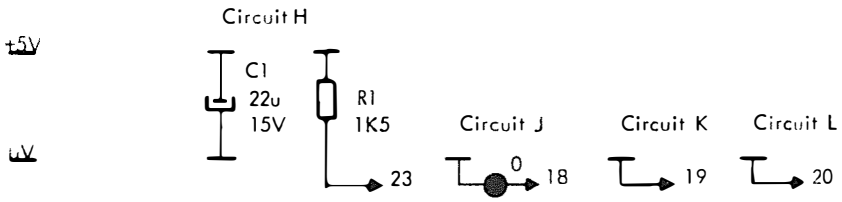




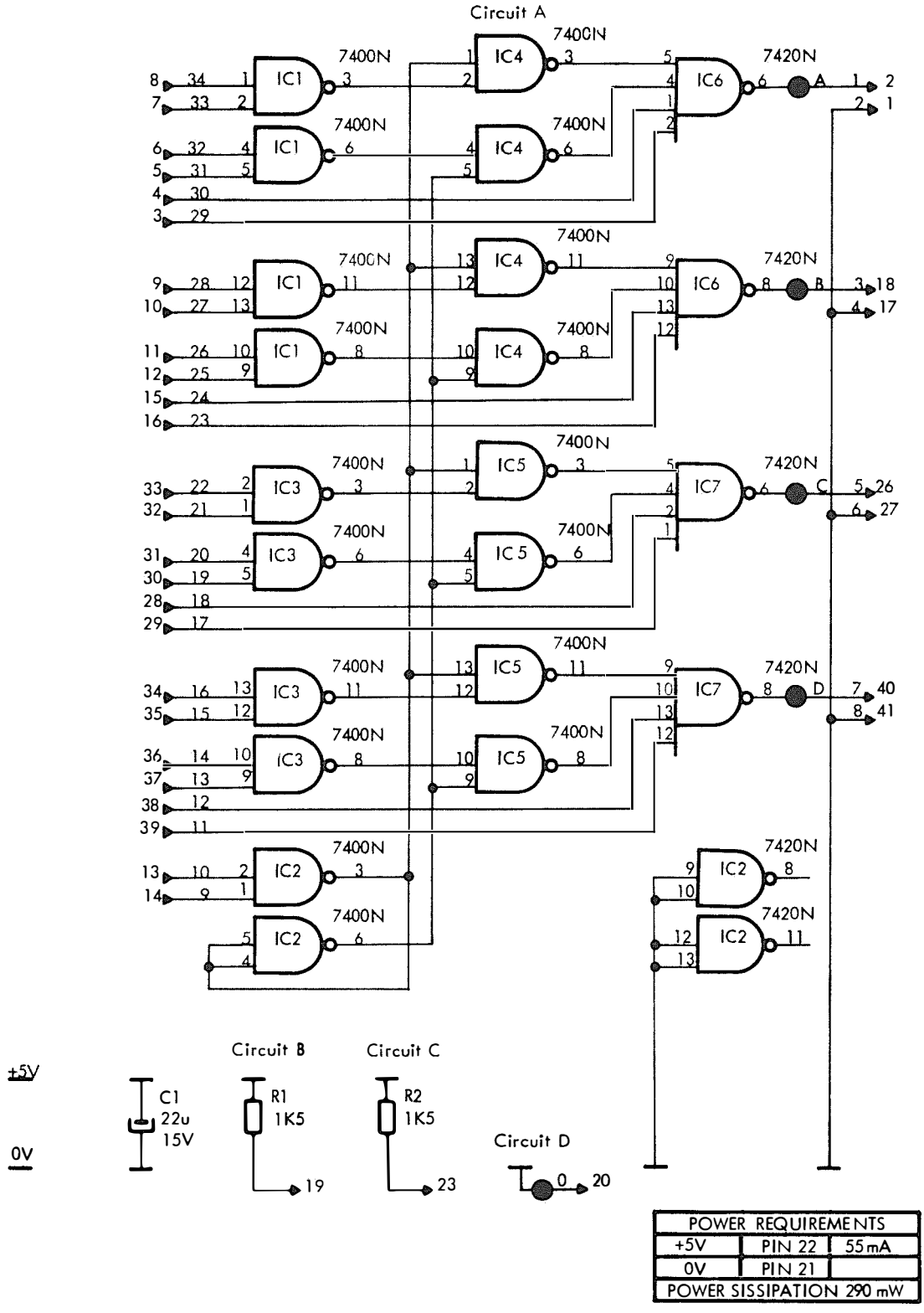


POWER REQUIREMENTS		
+5V	PIN 22	119mA
0V	PIN 21	
POWER DISSIPATION 625mW		





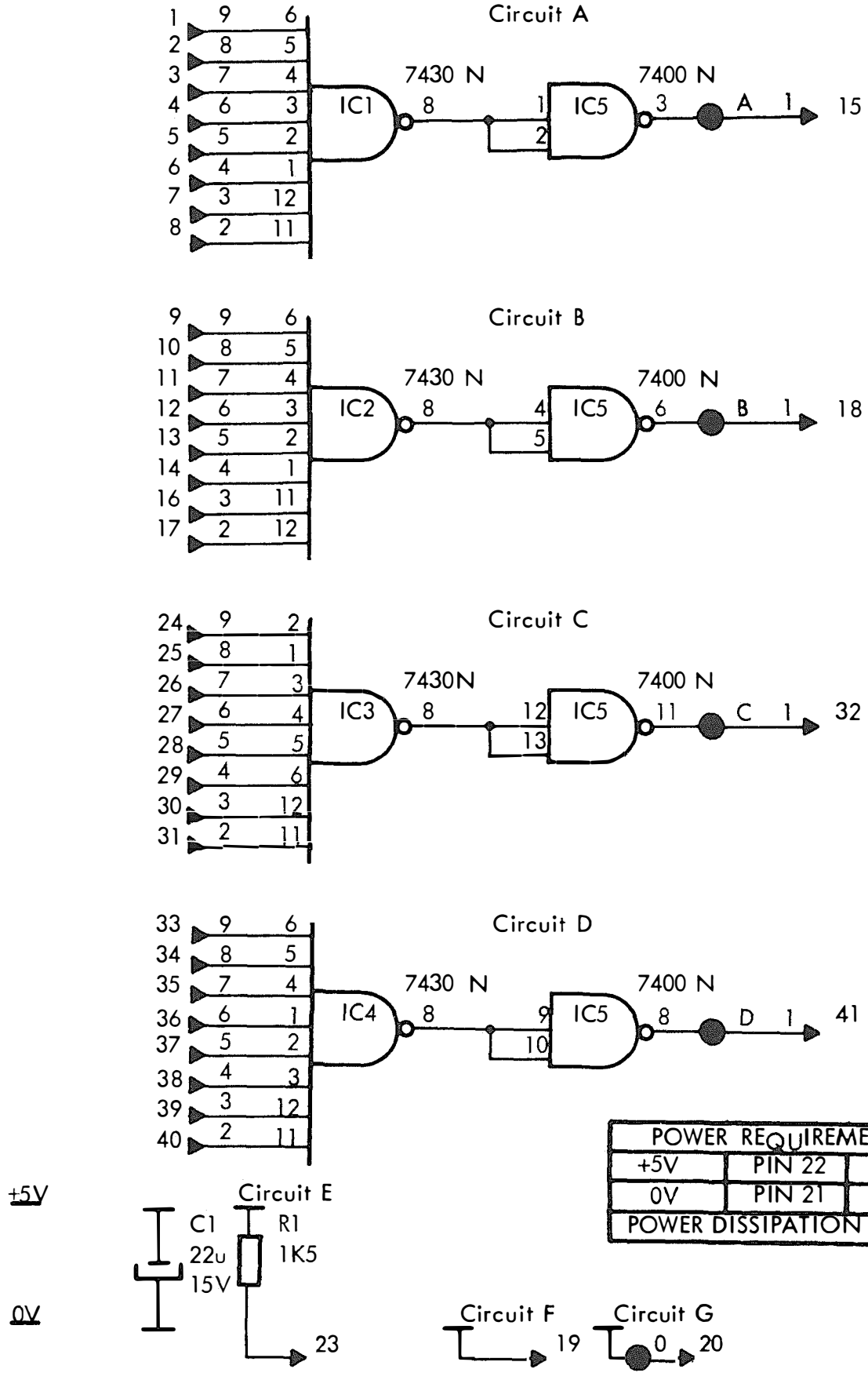
POWER REQUIREMENTS		
+5V	PIN 22	31 mA
0V	PIN 21	
POWER DISSIPATION 165 mW		



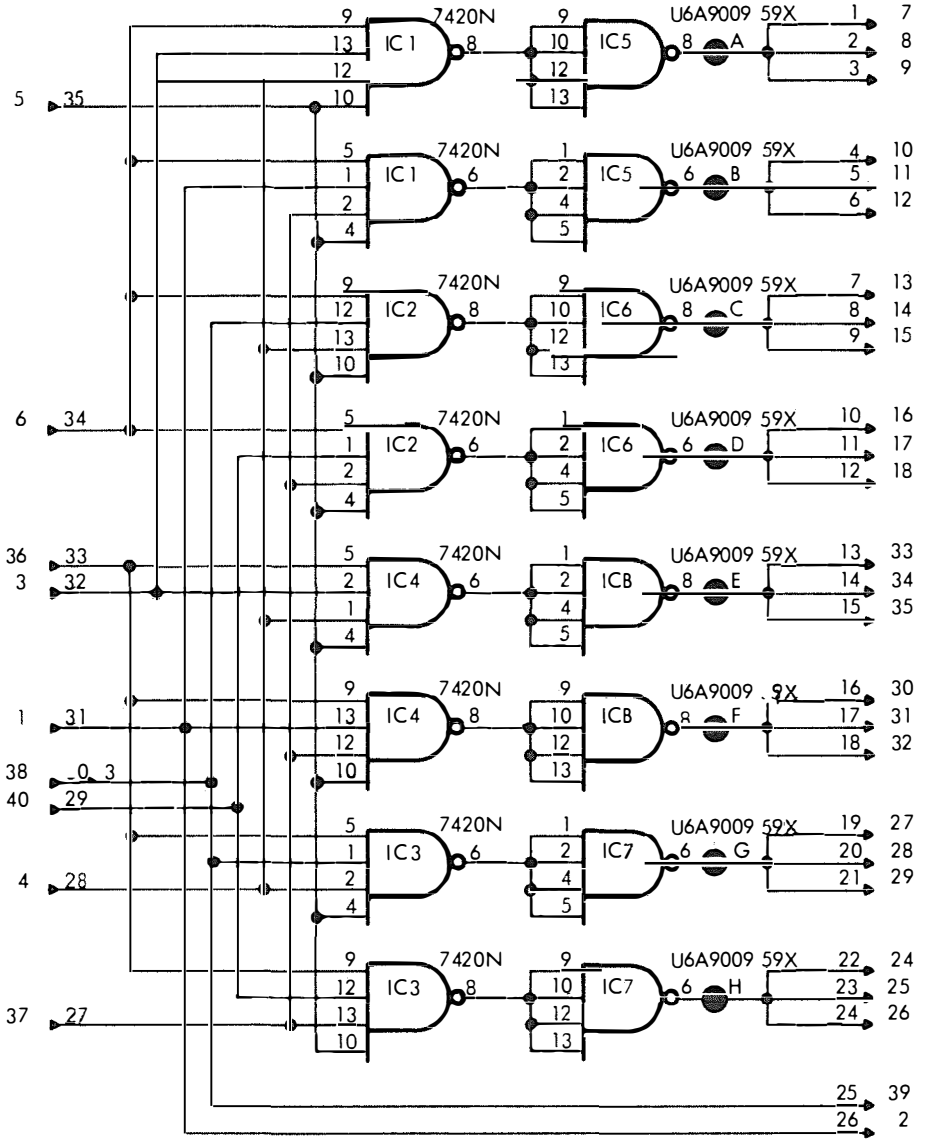
POWER REQUIREMENTS		
+5V	PIN 22	55 mA
0V	PIN 21	
POWER SISSIPATION 290 mW		

RCLM400 1AK401 RC0848-1

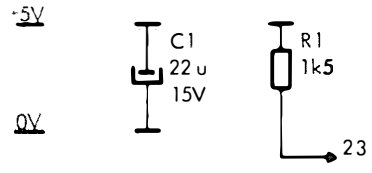
V10789 PCBA Circuit Diagram


Circuit A
7430 N
7400 N
IC1
IC5
A
15
Circuit B
IC2
B
18
Circuit C
7430N
IC3
C
32
Circuit D
IC4
D
41
POWER REQUIREMENTS
+5V
PIN 22
18mA
0V
PIN 21
POWER DISSIPATION 95 mW
+5V
0V
Circuit E
C1
22u
15V
R1
1K5
23
Circuit F
19
Circuit G
0
20

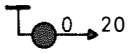
Circuit A



Circuit B



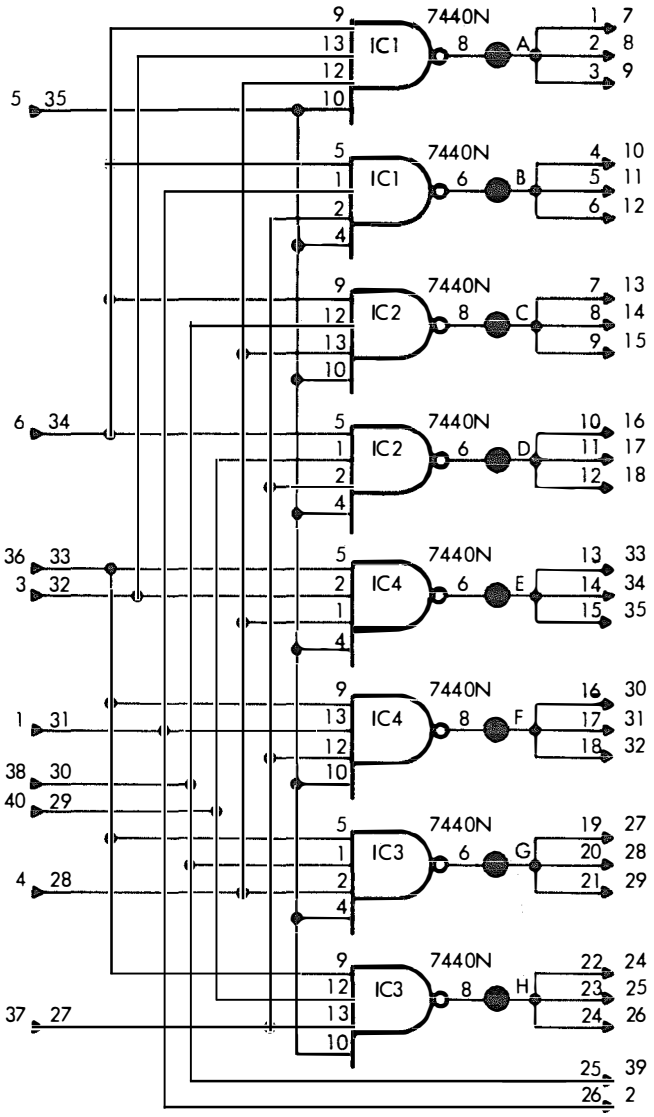
Circuit C



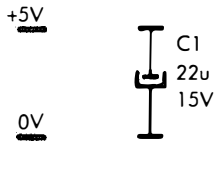
Circuit D

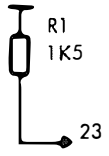
POWER REQUIREMENTS		
+5V	PIN 22	85 mA
0V	PIN 21	
POWER DISSIPATION 445 mW		

Circuit A

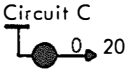


Circuit B

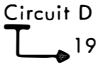




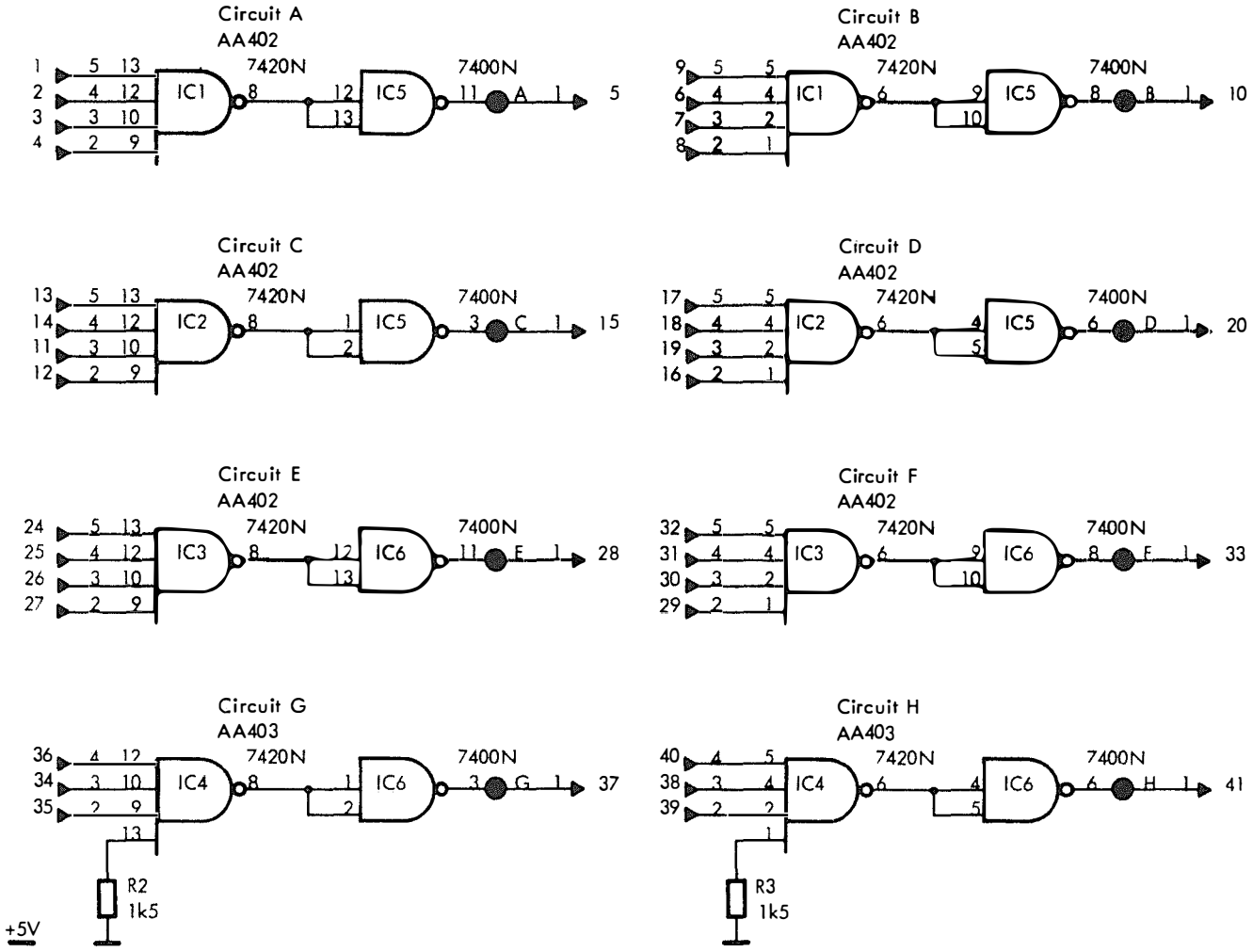
Circuit C

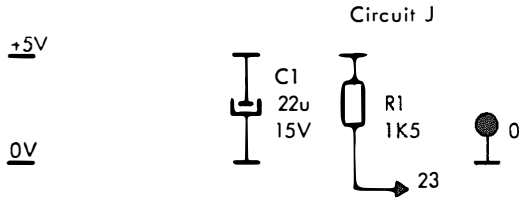


Circuit D



POWER REQUIREMENTS		
+5V	PIN 22	25 mA
0V	PIN 21	
POWER DISSIPATION 135 mW		





POWER REQUIREMENTS		
+5V	PIN 22	36 mA
0V	PIN 21	
POWER DISSIPATION 190 mW		

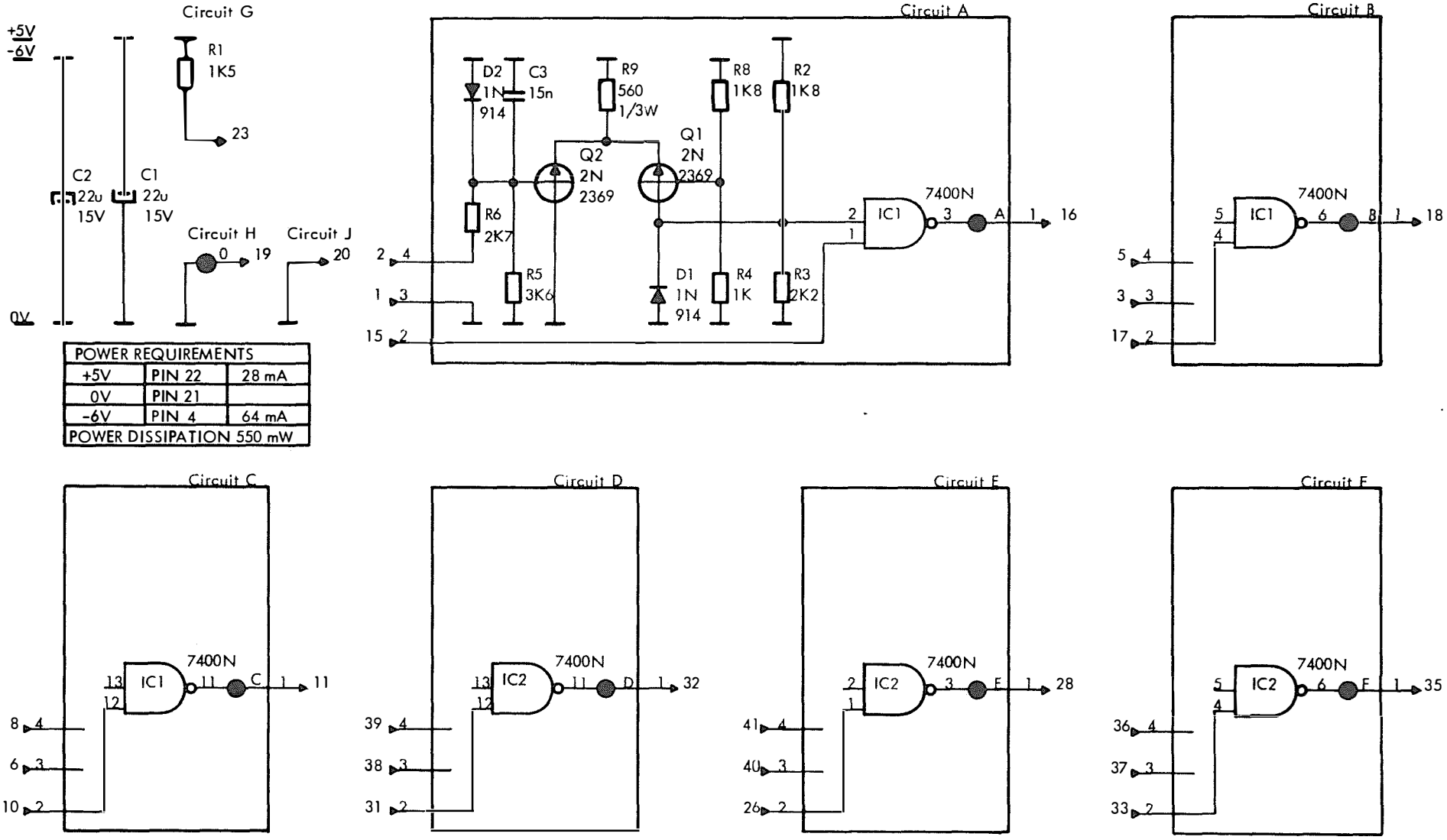
RCLM400

V11578

6DA406

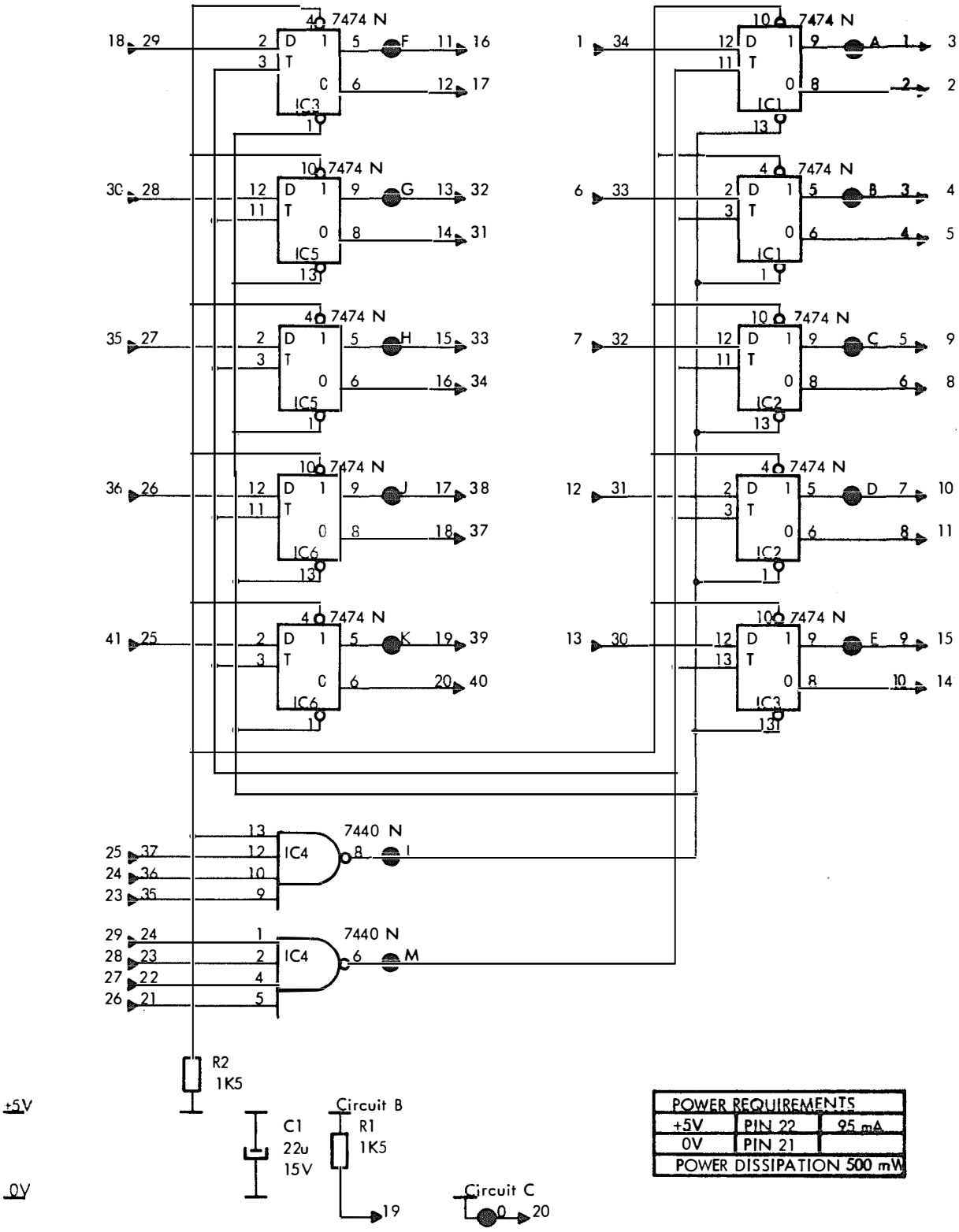
PCBA Circuit Diagram

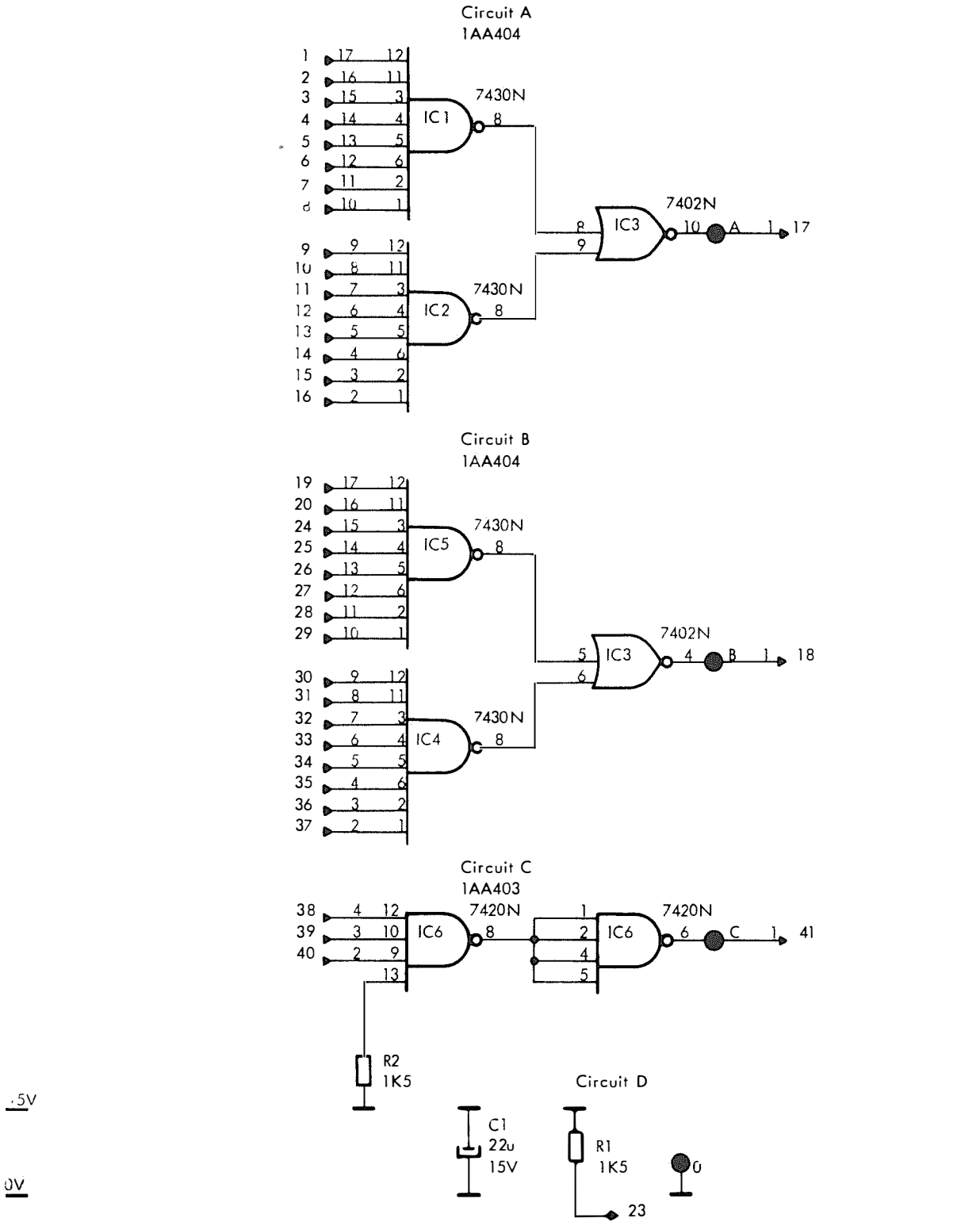
RC0853-2



POWER REQUIREMENTS		
+5V	PIN 22	28 mA
0V	PIN 21	
-6V	PIN 4	64 mA
POWER DISSIPATION 550 mW		

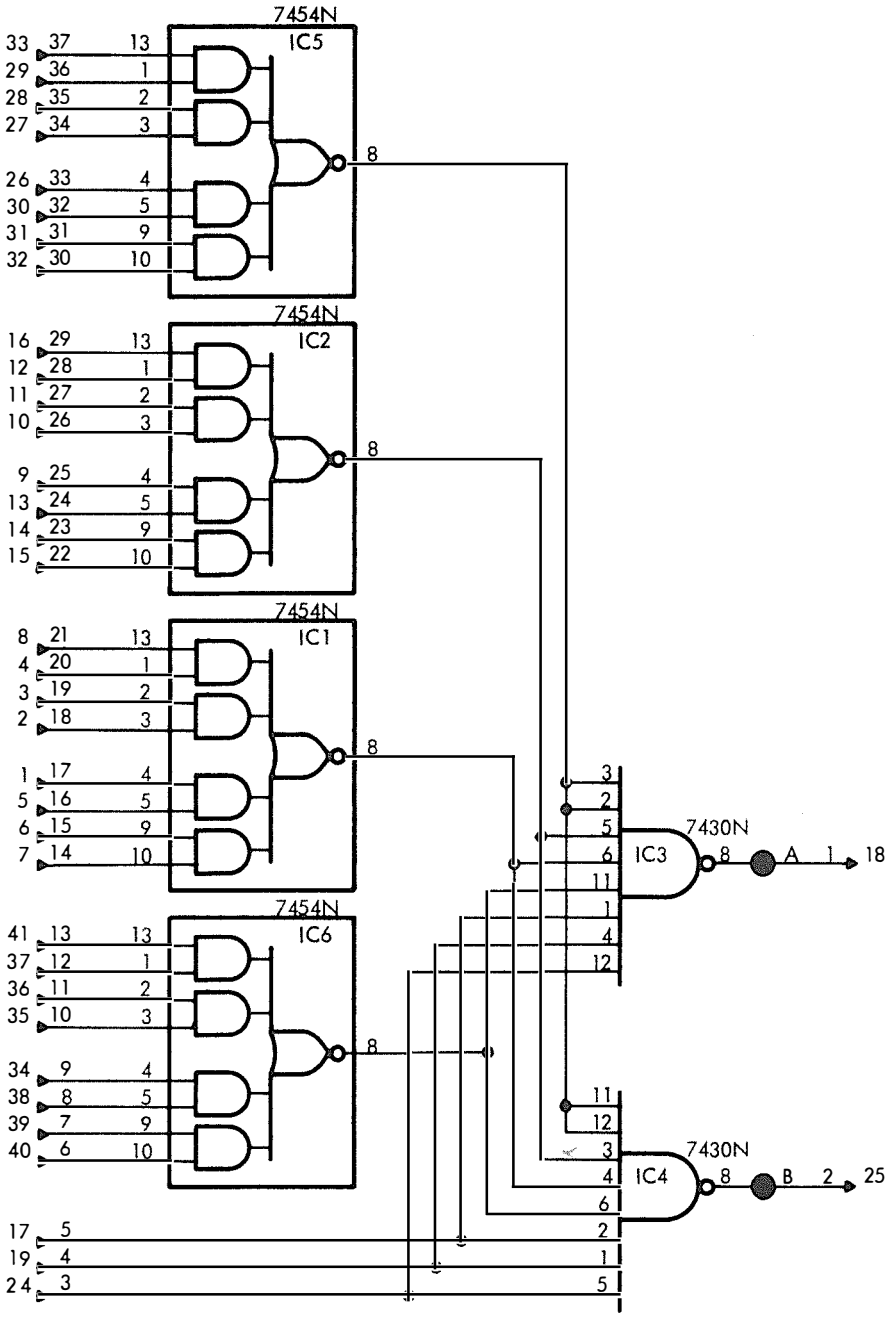
Circuit A


7474 N
IC3
IC5
IC6
IC1
IC2
7440 N
IC4
R2
1K5
C1
22u
15V
R1
1K5
Circuit B
Circuit C
+5V
0V
POWER REQUIREMENTS
+5V PIN 22 95 mA
0V PIN 21
POWER DISSIPATION 500 mW

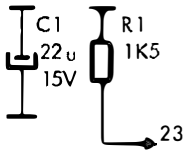


POWER REQUIREMENTS		
+5V	PIN 22	27 mA
0V	PIN 21	
POWER DISSIPATION 140 mW		

Circuit A



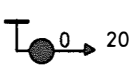
Circuit B



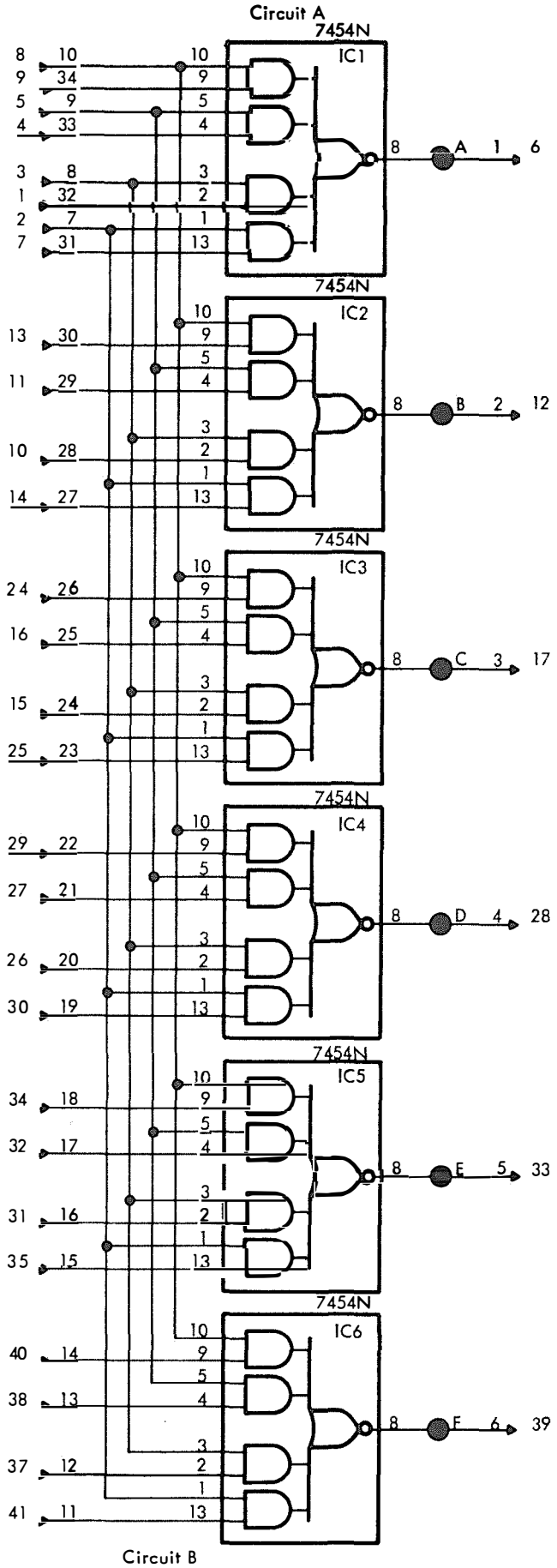
+5V

0V

Circuit C



POWER REQUIREMENTS		
+5V	PIN 22	23 mA
0V	PIN 21	
POWER DISSIPATION 120 mW		



POWER REQUIREMENTS		
+5V	PIN 22	
0V	PIN 21	
POWER DISSIPATION		

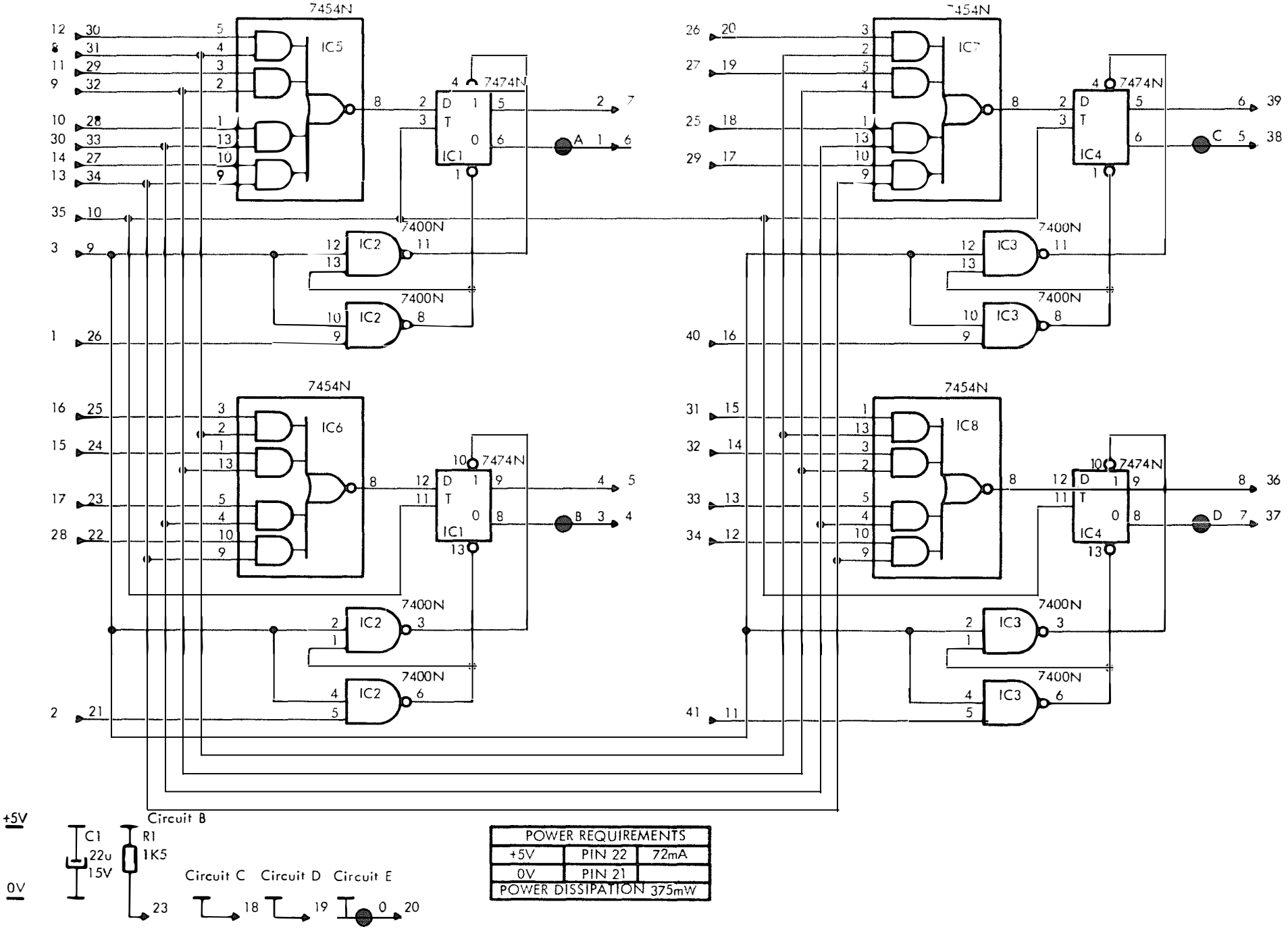
RCLM400

V12320

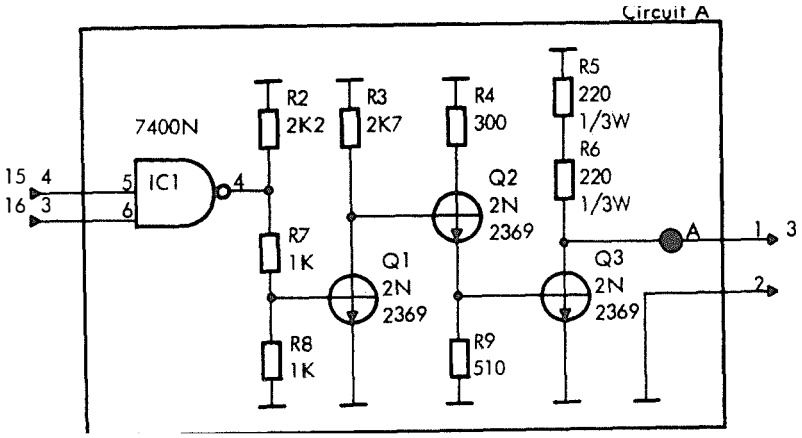
PCBA Circuit Diagram

BG405

RC0859-1

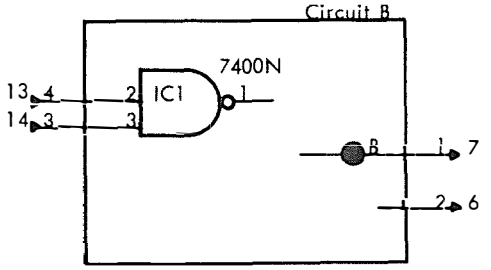


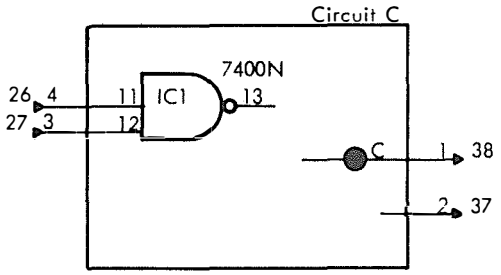
+12V
+5V

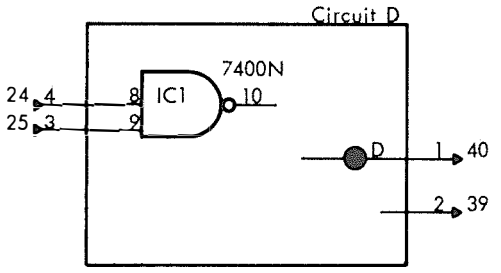


+12V
+5V

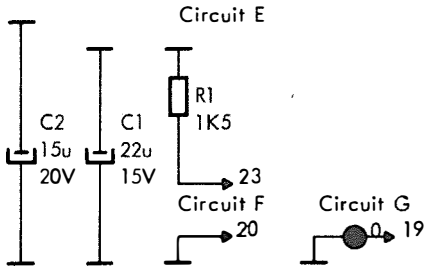
0V







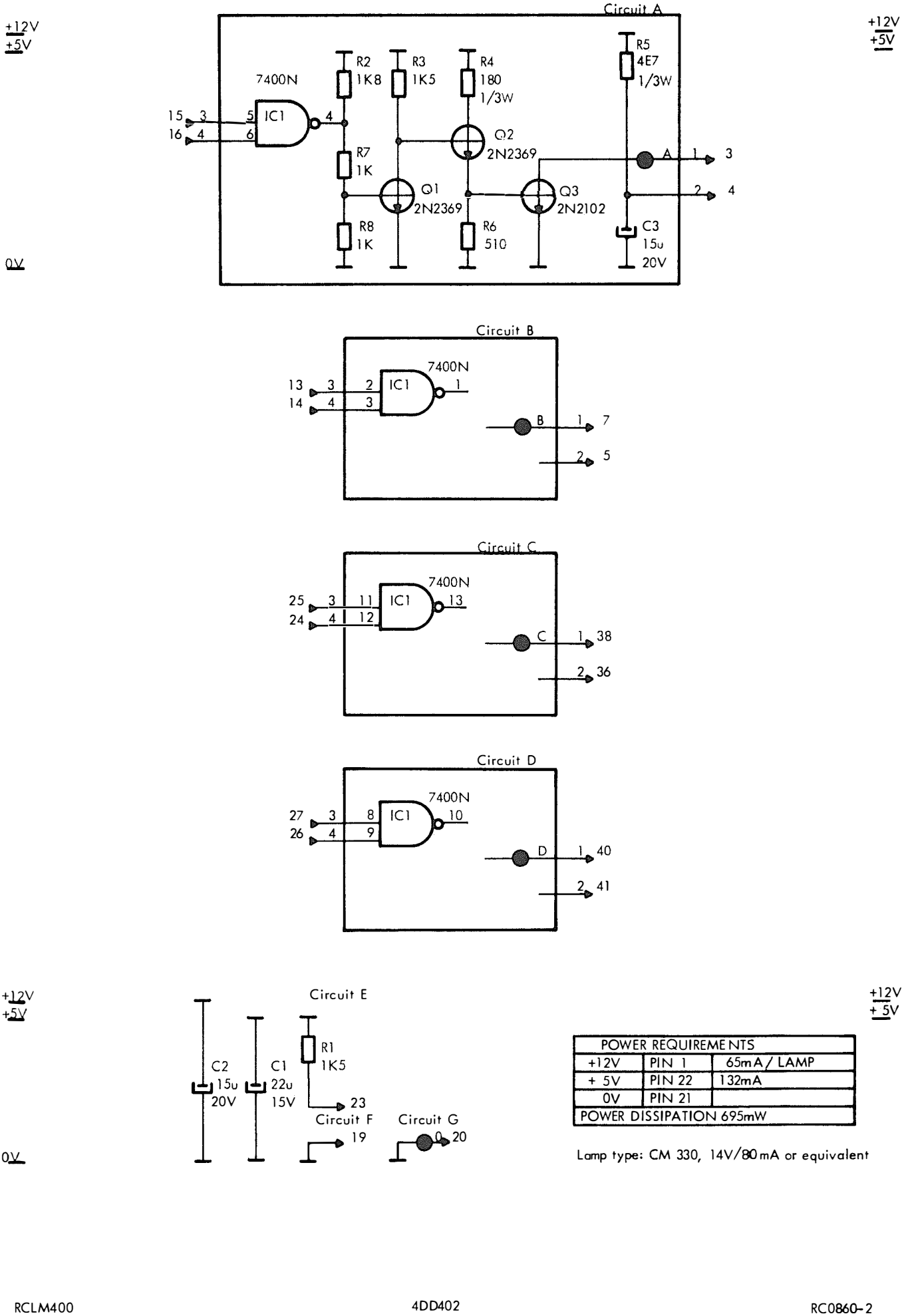
+12V
+5V



POWER REQUIREMENTS		
+ 12V	PIN 1	115 mA
+ 5V	PIN 22	88 mA
0V	PIN 21	
POWER DISSIPATION 1910 mW		

+12V
+5V

0V

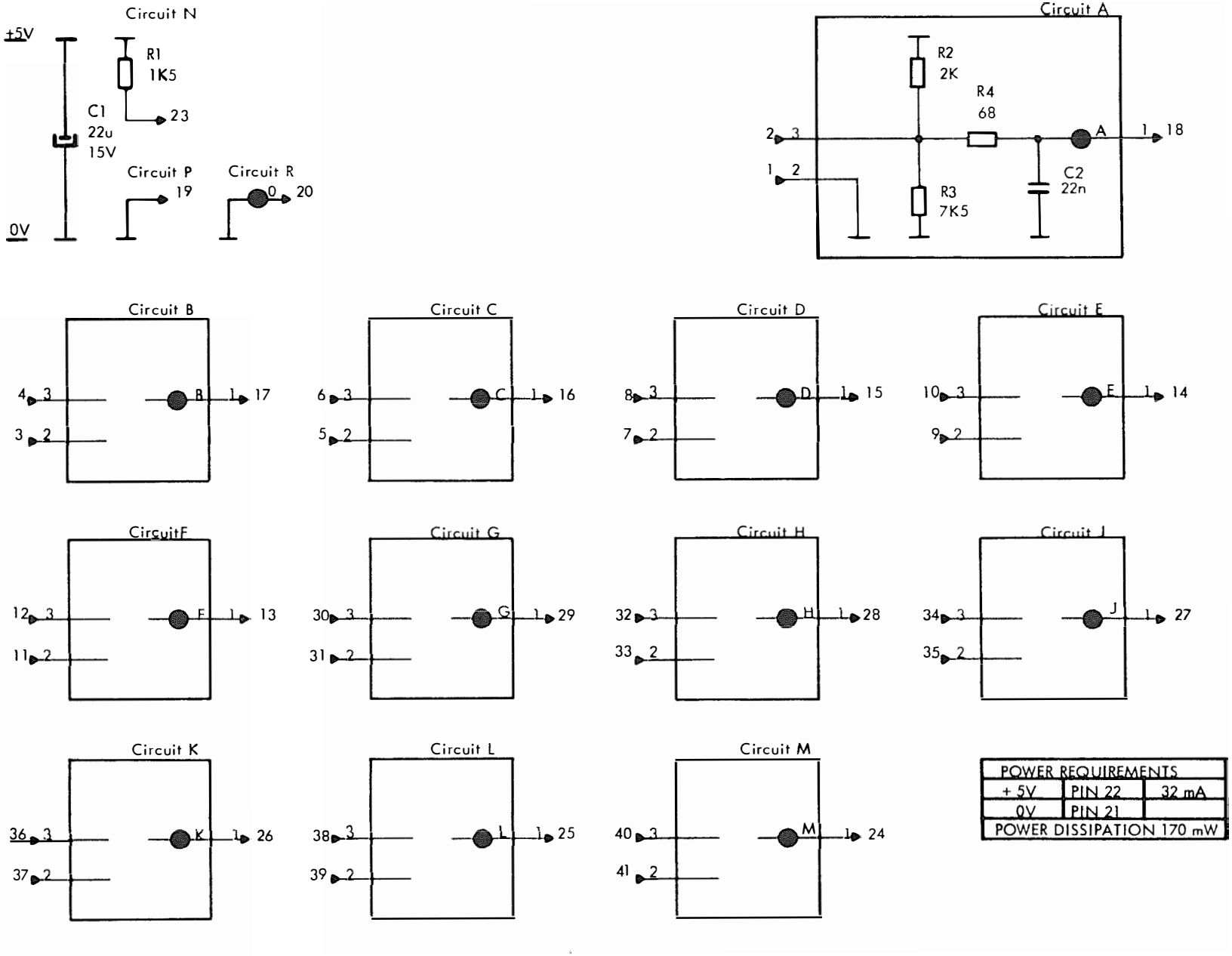


POWER REQUIREMENTS		
+12V	PIN 1	65mA / LAMP
+ 5V	PIN 22	132mA
0V	PIN 21	
POWER DISSIPATION 695mW		

Lamp type: CM 330, 14V/80mA or equivalent

V11100 RCLM400

PCBA Circuit Diagram 12DG401



POWER REQUIREMENTS		
+ 5V	PIN 22	32 mA
0V	PIN 21	
POWER DISSIPATION 170 mW		

RC0861-1

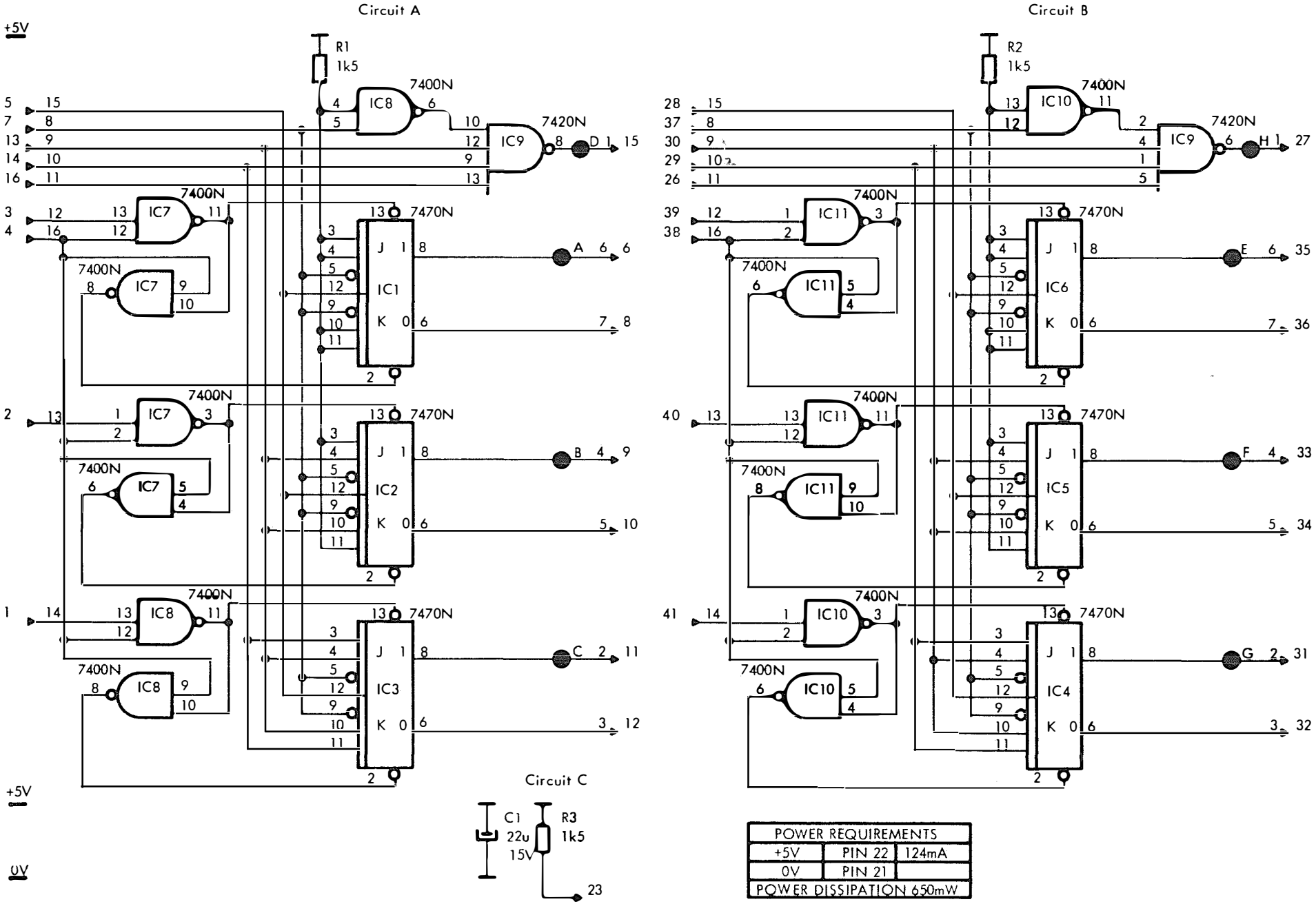
RCLM400

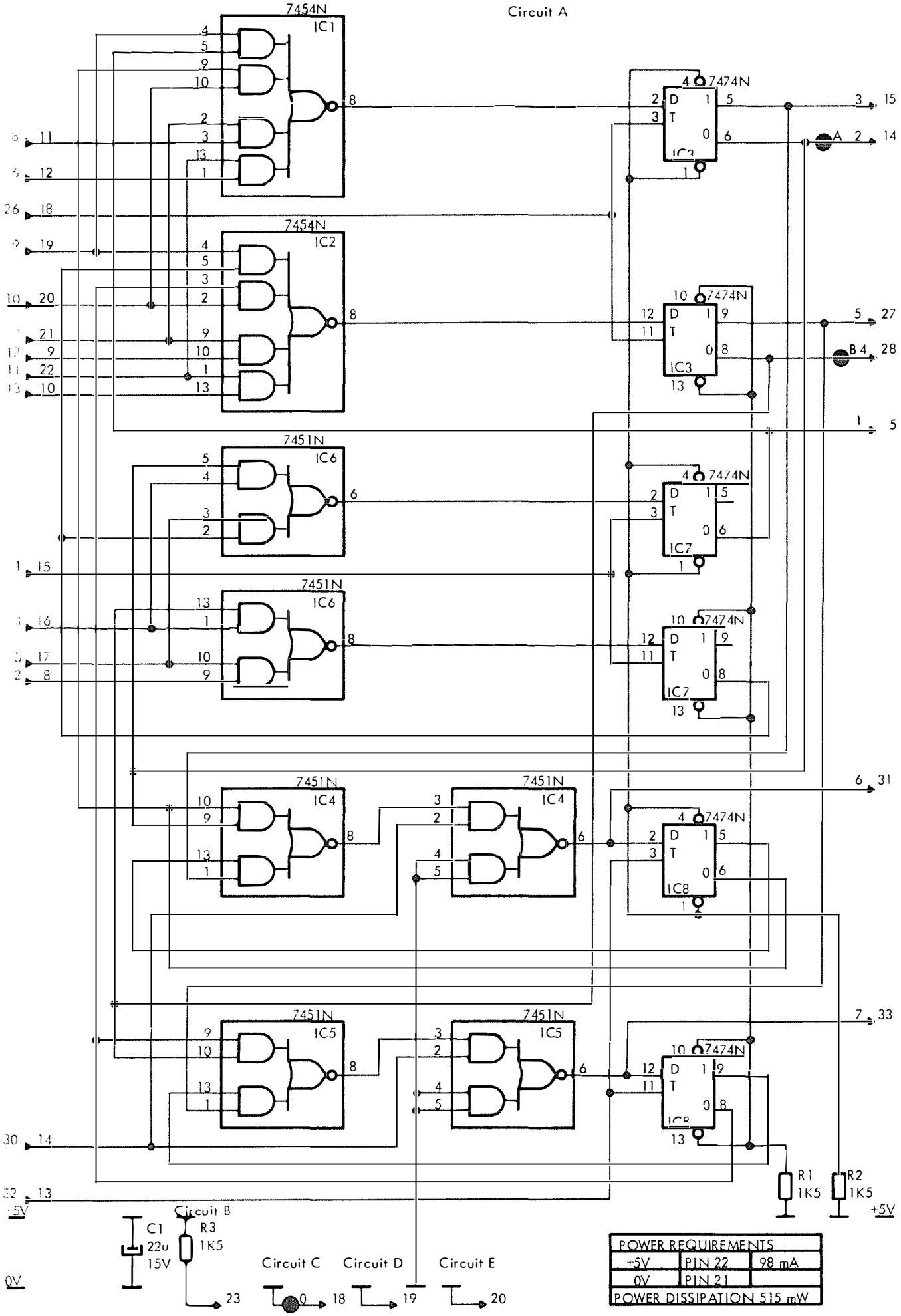
V10113

2 BD 401

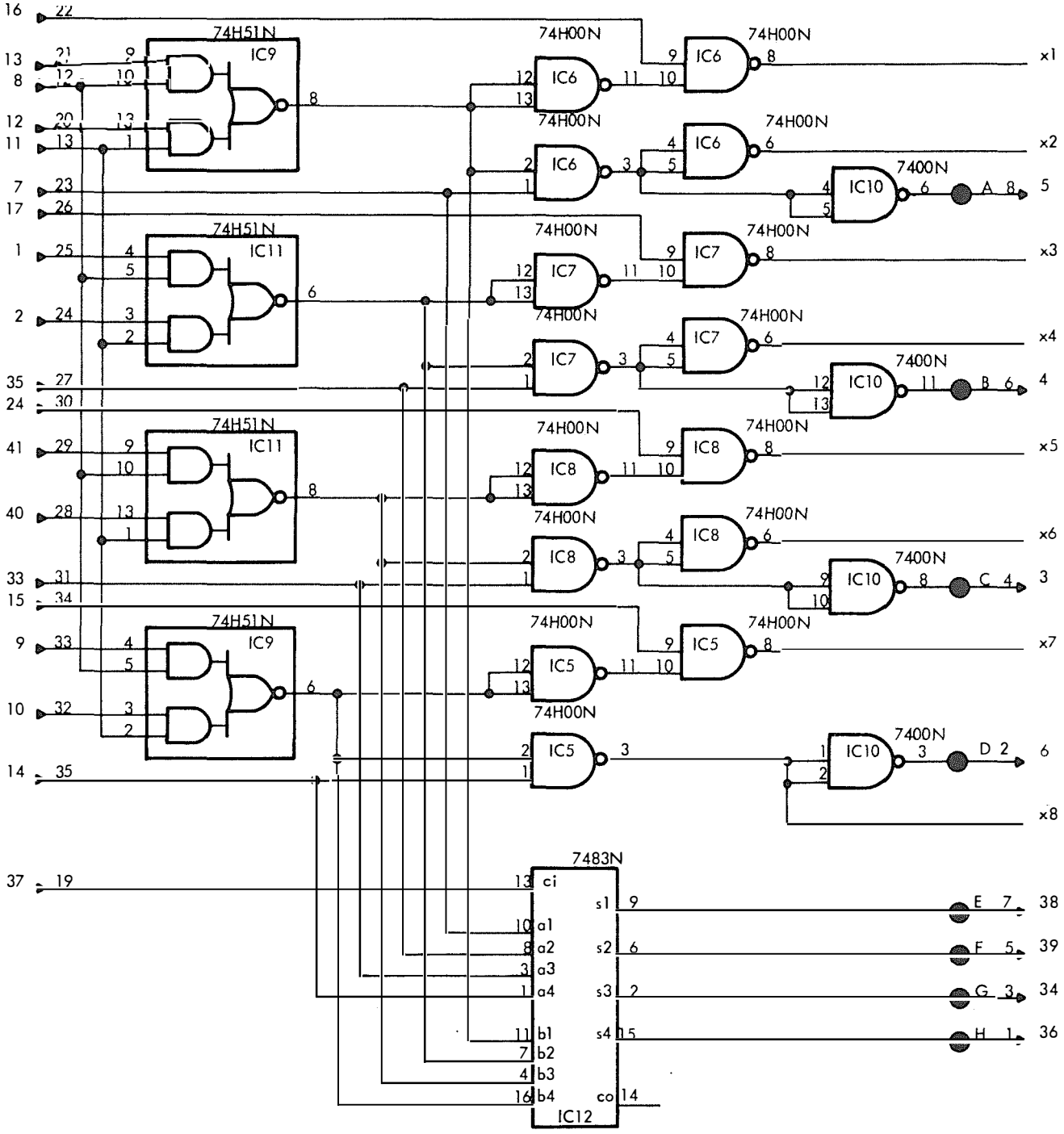
PCBA Circuit Diagram

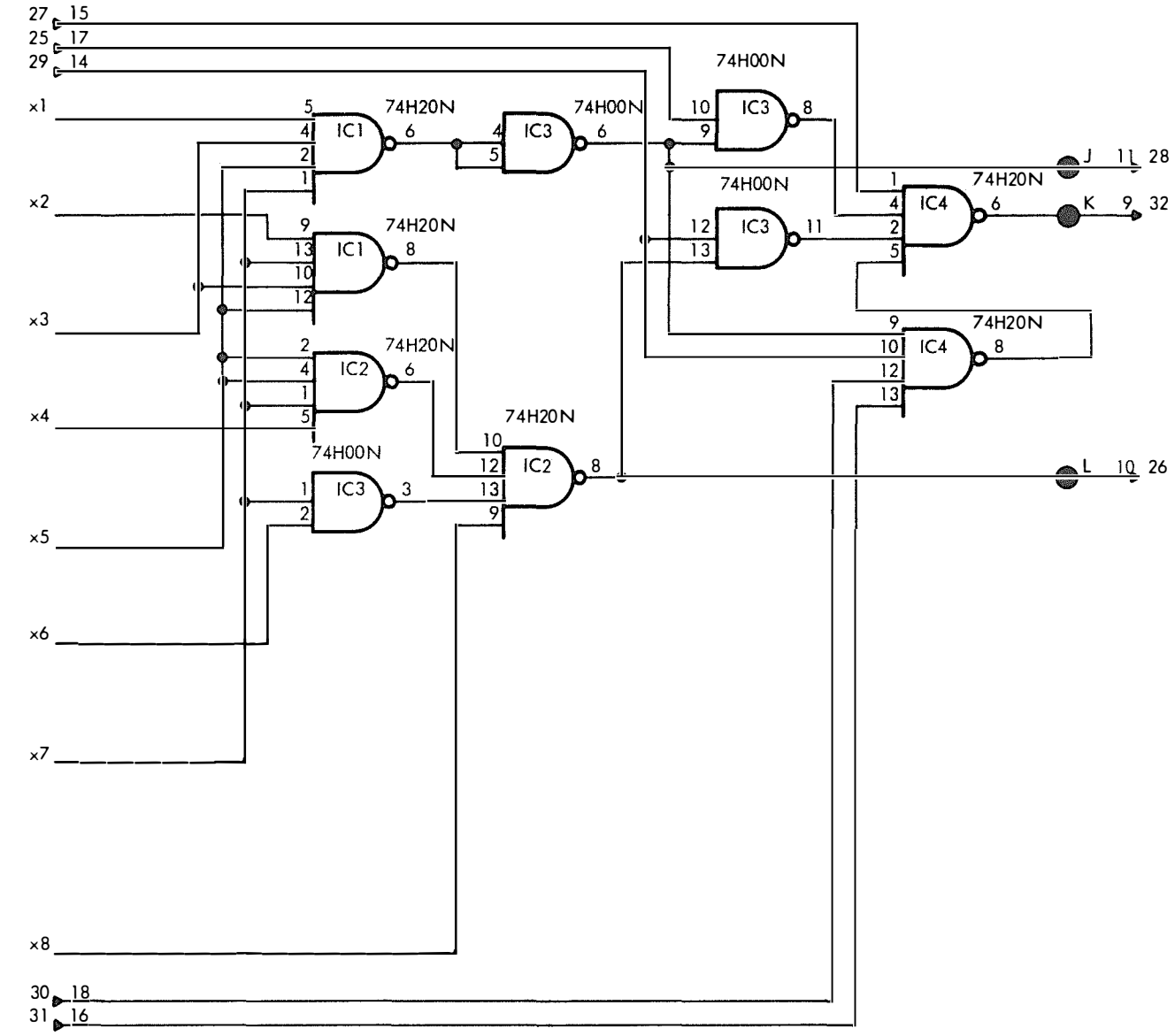
RC0862-1

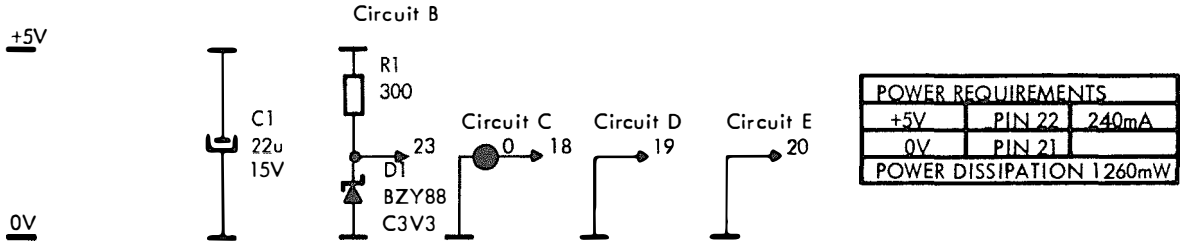



Circuit A
7454N IC1
7454N IC2
7451N IC6
7451N IC6
7451N IC4
7451N IC4
7451N IC5
7451N IC5
7474N IC2
7474N IC3
7474N IC7
7474N IC7
7474N IC8
7474N IC8
+5V
0V
C1 22u 15V
Circuit B
R3 1K5
R1 1K5
R2 1K5
Circuit C
Circuit D
Circuit E
POWER REQUIREMENTS
+5V PIN 22 98 mA
0V PIN 21
POWER DISSIPATION 515 mW

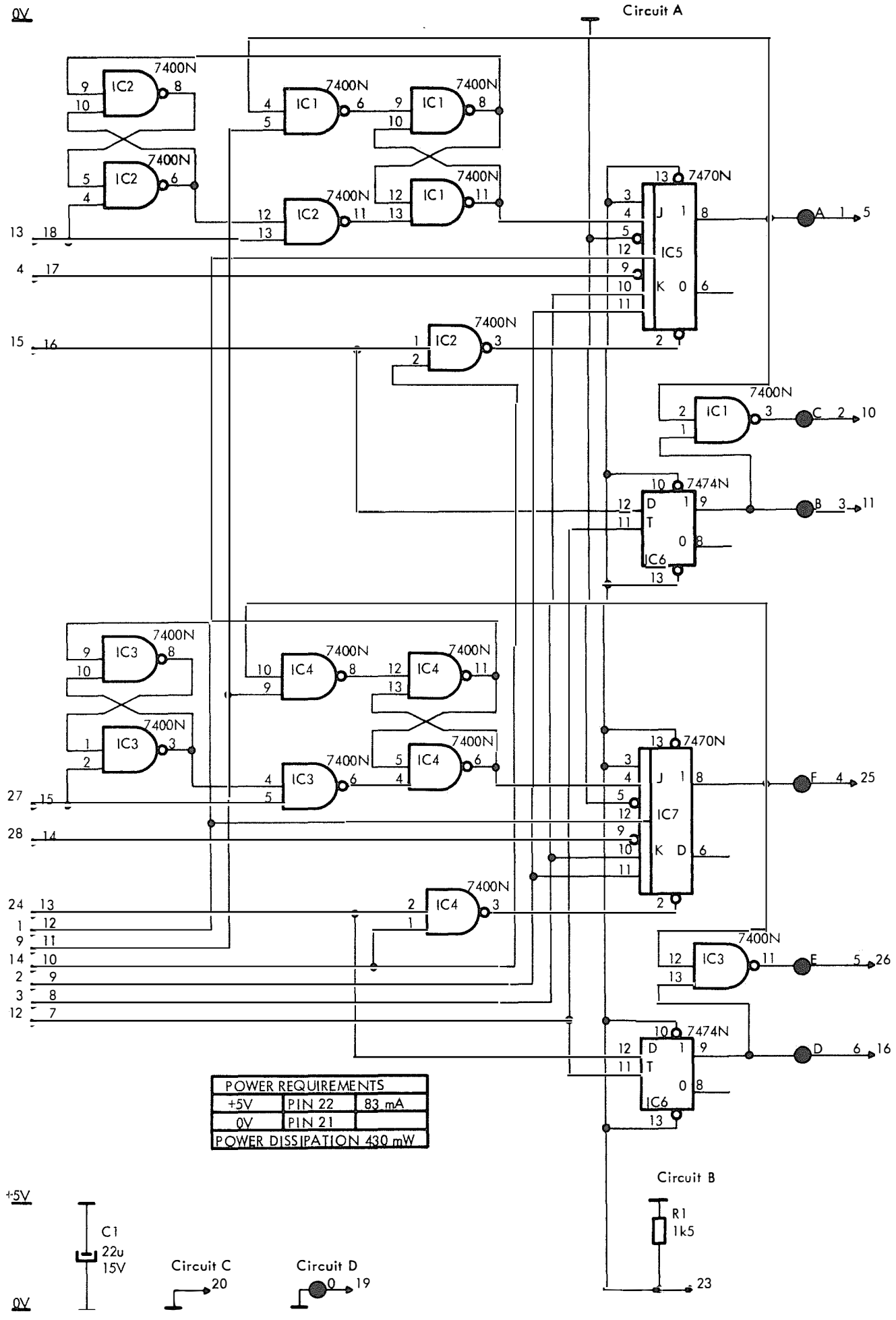
Circuit A


74H51N
IC9
IC11
74H00N
IC6
IC7
IC8
IC5
7400N
IC10
7483N
IC12
ci
a1
a2
a3
a4
b1
b2
b3
b4
s1
s2
s3
s4
co
A 8
B 6
C 4
D 2
E 7
F 5
G 3
H 1
×1
×2
×3
×4
×5
×6
×7
×8





POWER REQUIREMENTS		
+5V	PIN 22	240mA
0V	PIN 21	
POWER DISSIPATION 1260mW		


0V
Circuit A
7400N
IC2
IC1
IC3
IC4
7470N
IC5
IC7
7474N
IC6
J
K
D
T
A 1 5
B 3 11
C 2 10
D 6 16
E 5 26
F 4 25
POWER REQUIREMENTS
+5V PIN 22 83 mA
0V PIN 21
POWER DISSIPATION 430 mW
+5V
C1
22u
15V
Circuit B
R1
1k5
Circuit C
20
Circuit D
19
23

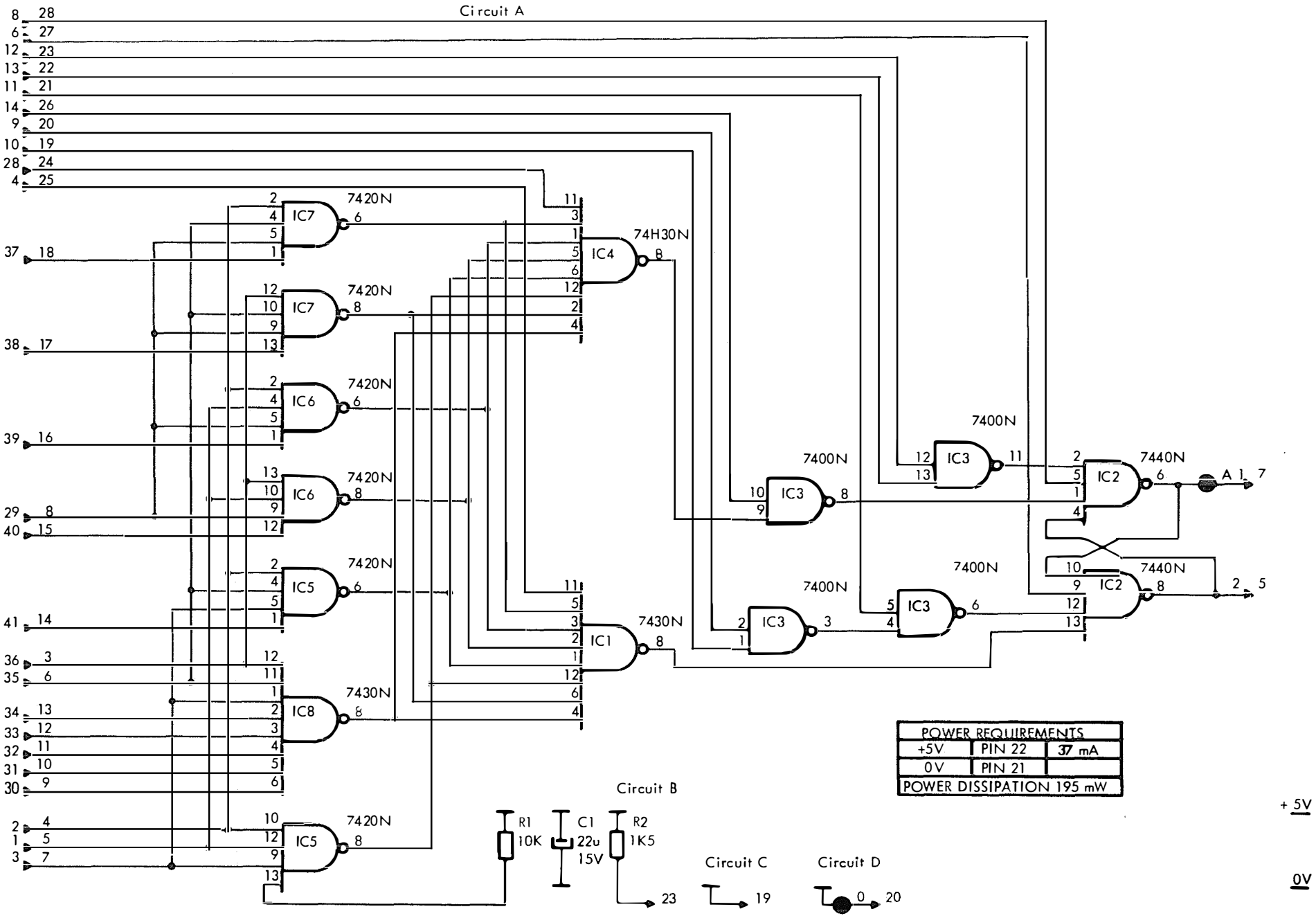
RCLM 400

V D 80

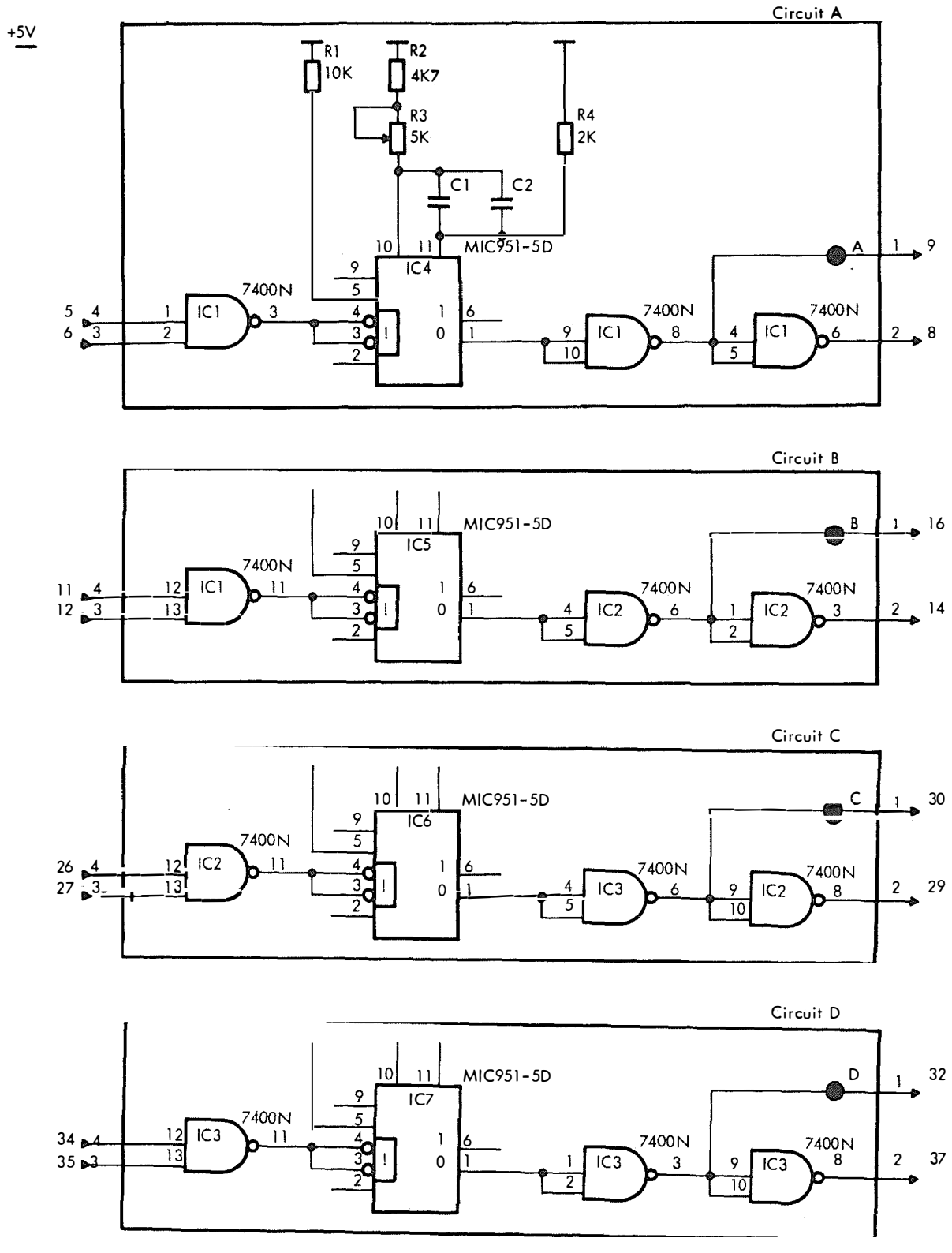
PCBA Circuit Diagram

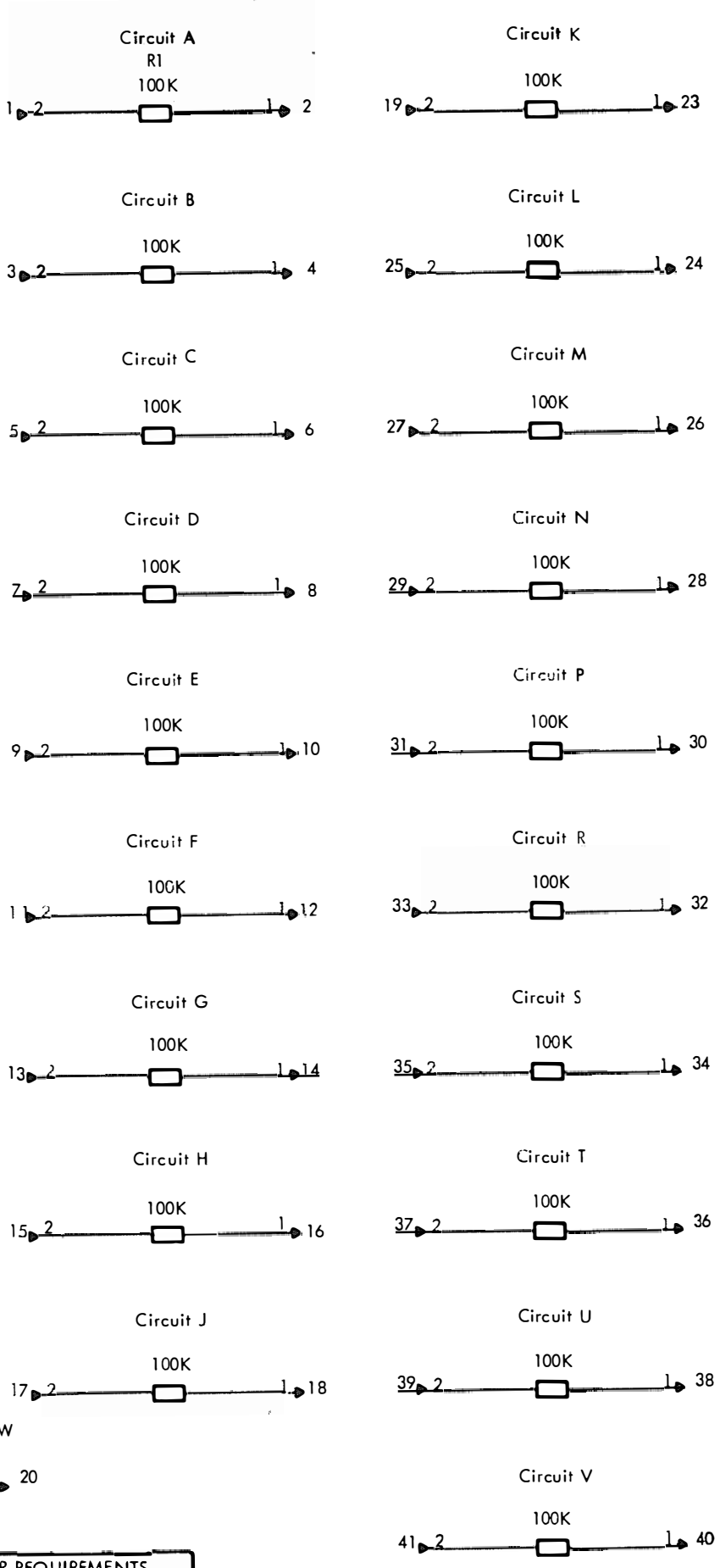
1BA402

RC0 870 - 1



POWER REQUIREMENTS		
+5V	PIN 22	37 mA
0V	PIN 21	
POWER DISSIPATION 195 mW		


Circuit A
+5V
R1
10K
R2
4K7
R3
5K
R4
2K
C1
C2
MIC951-5D
IC4
7400N
IC1
A
Circuit B
MIC951-5D
IC5
IC1
IC2
B
Circuit C
MIC951-5D
IC6
IC2
IC3
C
Circuit D
MIC951-5D
IC7
IC3
D
Circuit E
+5V
0V
C3
22u
15V
R5
1K5
Circuit F
Circuit G
Circuit H
POWER REQUIREMENTS
+5V PIN 22 152mA
0V PIN 21
POWER DISSIPATION 800 mW


Circuit A
R1
100K
1
2
Circuit B
100K
3
4
Circuit C
100K
5
6
Circuit D
100K
7
8
Circuit E
100K
9
10
Circuit F
100K
11
12
Circuit G
100K
13
14
Circuit H
100K
15
16
Circuit J
100K
17
18
Circuit K
100K
19
23
Circuit L
100K
25
24
Circuit M
100K
27
26
Circuit N
100K
29
28
Circuit P
100K
31
30
Circuit R
100K
33
32
Circuit S
100K
35
34
Circuit T
100K
37
36
Circuit U
100K
39
38
Circuit V
100K
41
40
Circuit W
20
0V
POWER REQUIREMENTS
+5V
PIN 22
0 mA
0V
PIN 21
POWER DISSIPATION -

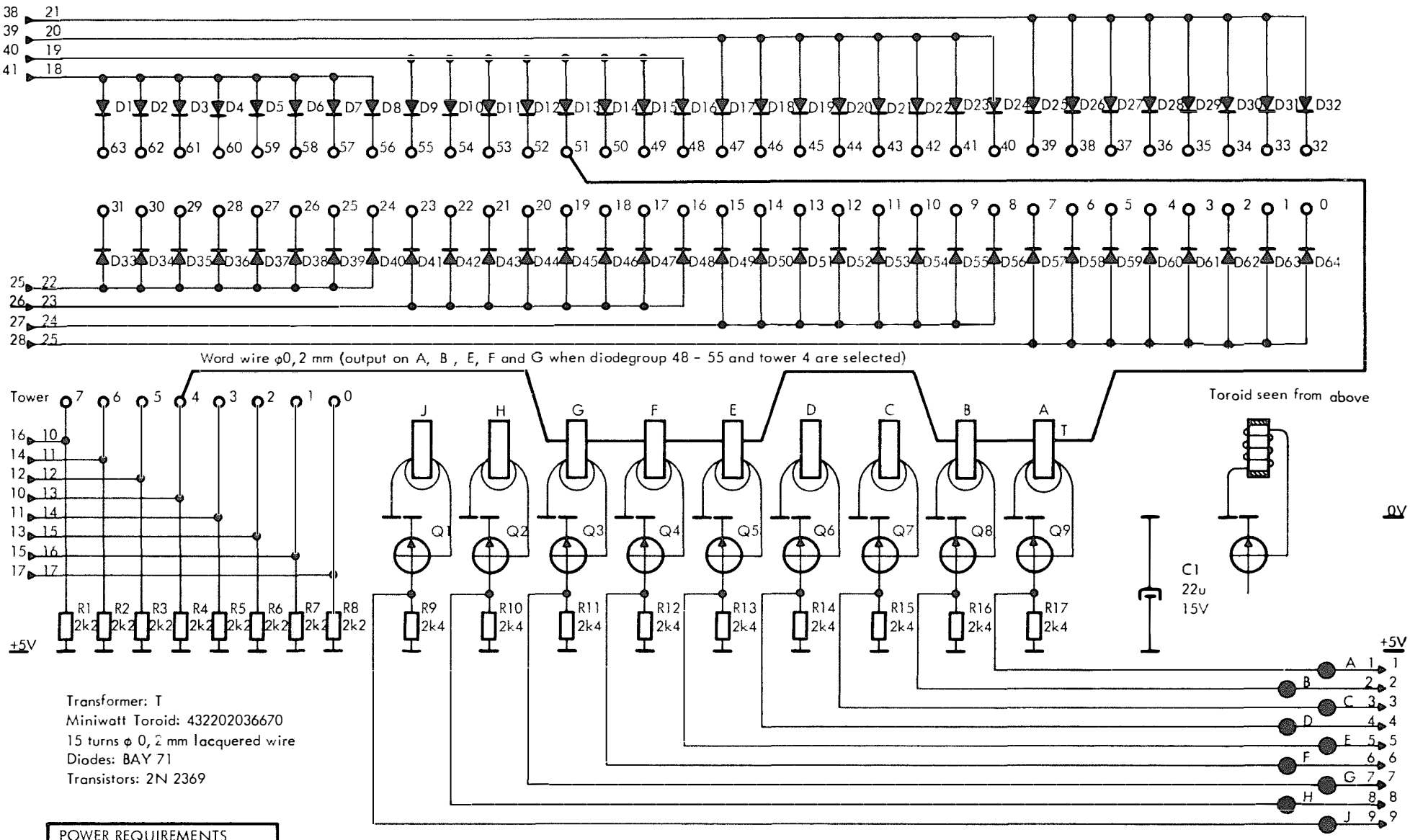
RCLM400

V12010

PCBA Circuit Diagram

1SA401

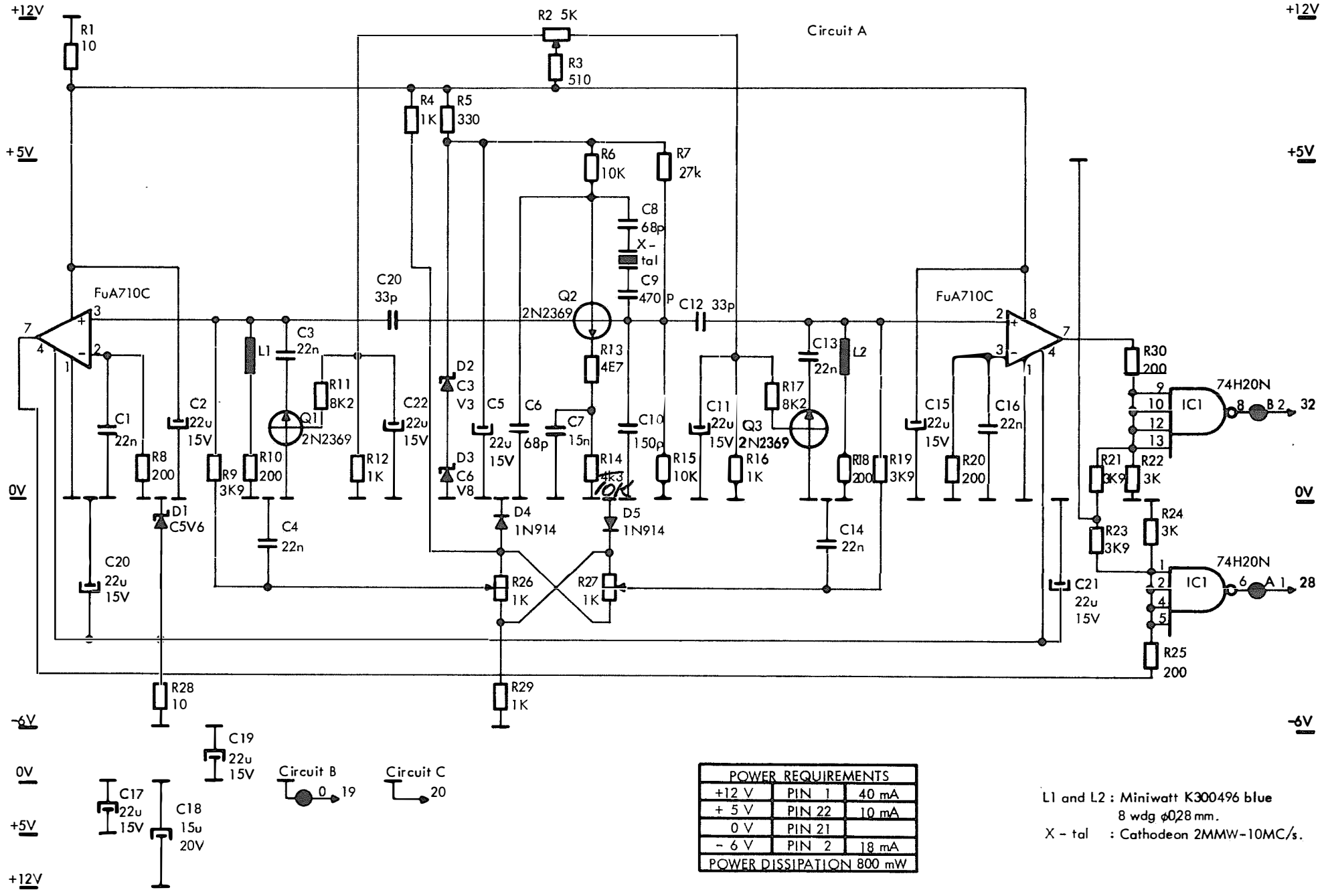
RC0878 - 1



POWER REQUIREMENTS		
+5V	PIN 22	30mA
0V	PIN 21	
POWER DISSIPATION		150mW

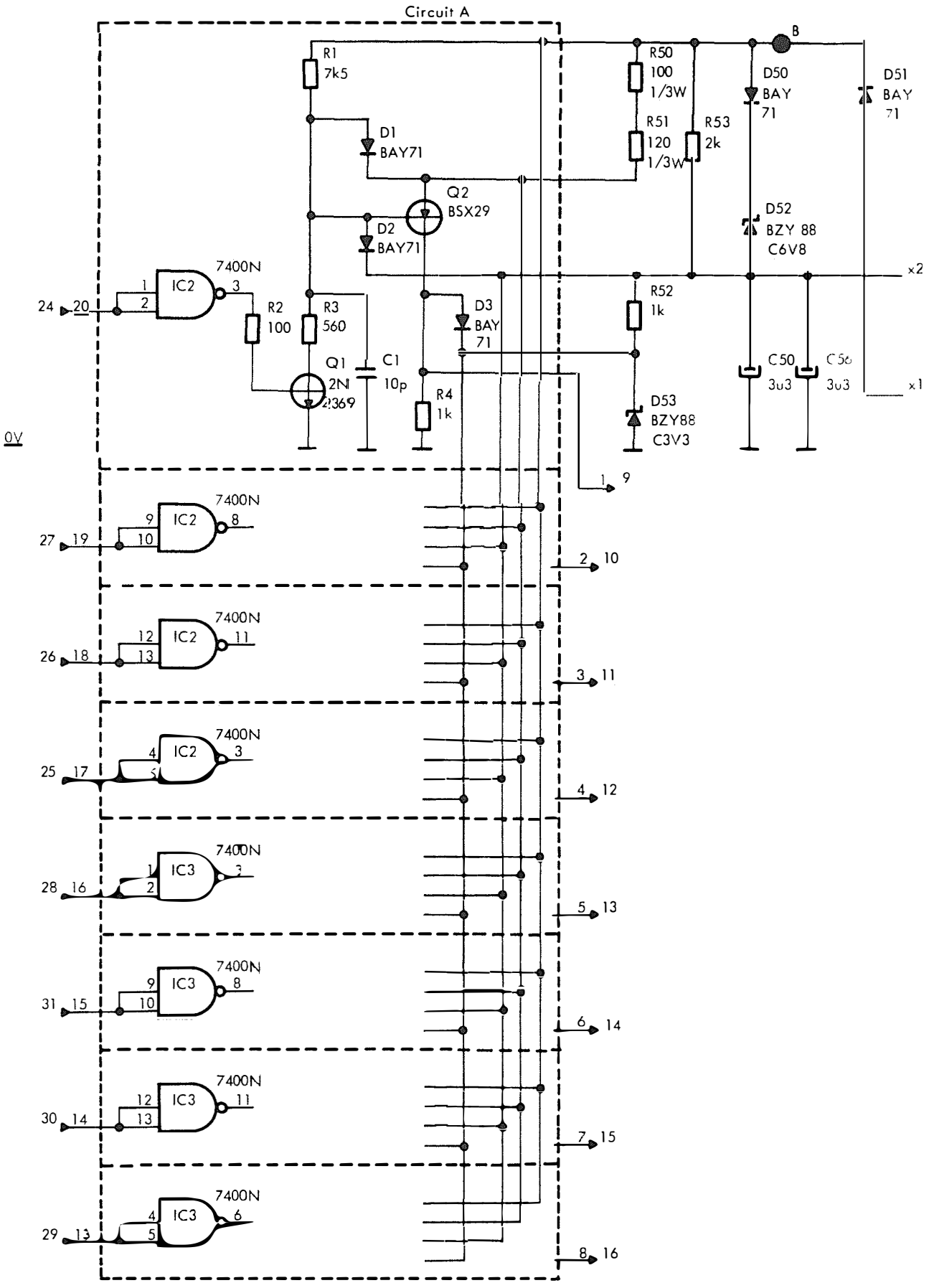
ECN 4014
SP 8.9.72
CPO 1720

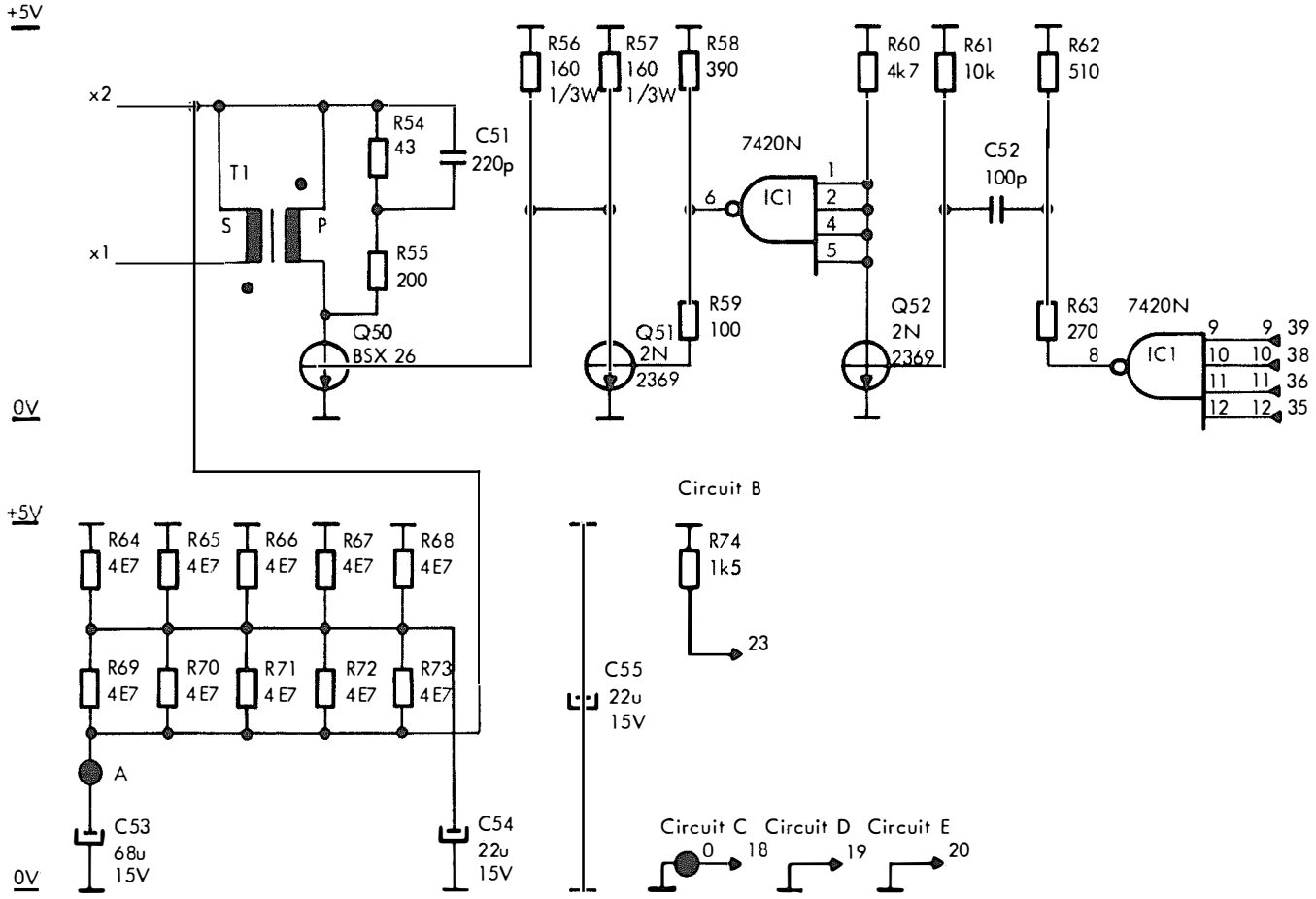
V12035 RCLM400 1CC402 PCBA Circuit Diagram RC0879-1 2



POWER REQUIREMENTS		
+12 V	PIN 1	40 mA
+ 5 V	PIN 22	10 mA
0 V	PIN 21	
- 6 V	PIN 2	18 mA
POWER DISSIPATION 800 mW		

L1 and L2 : Miniwatt K300496 blue
8 wdg ϕ0,28 mm.
X - tal : Cathodeon 2MMW-10MC/s.


Circuit A
R1
7k5
D1
BAY71
Q2
BSX29
D2
BAY71
R50
100
1/3W
R51
120
1/3W
R53
2k
B
D50
BAY
71
D51
BAY
71
D52
BZY 88
C6V8
×2
×1
7400N
IC2
R2
100
R3
560
Q1
2N
2369
C1
10p
R4
1k
D3
BAY
71
R52
1k
D53
BZY88
C3V3
C50
3u3
C56
3u3
0V
24
20
27
19
26
18
25
17
28
16
31
15
30
14
29
13
IC3
1
2
3
4
5
6
8
9
10
11
12
13
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

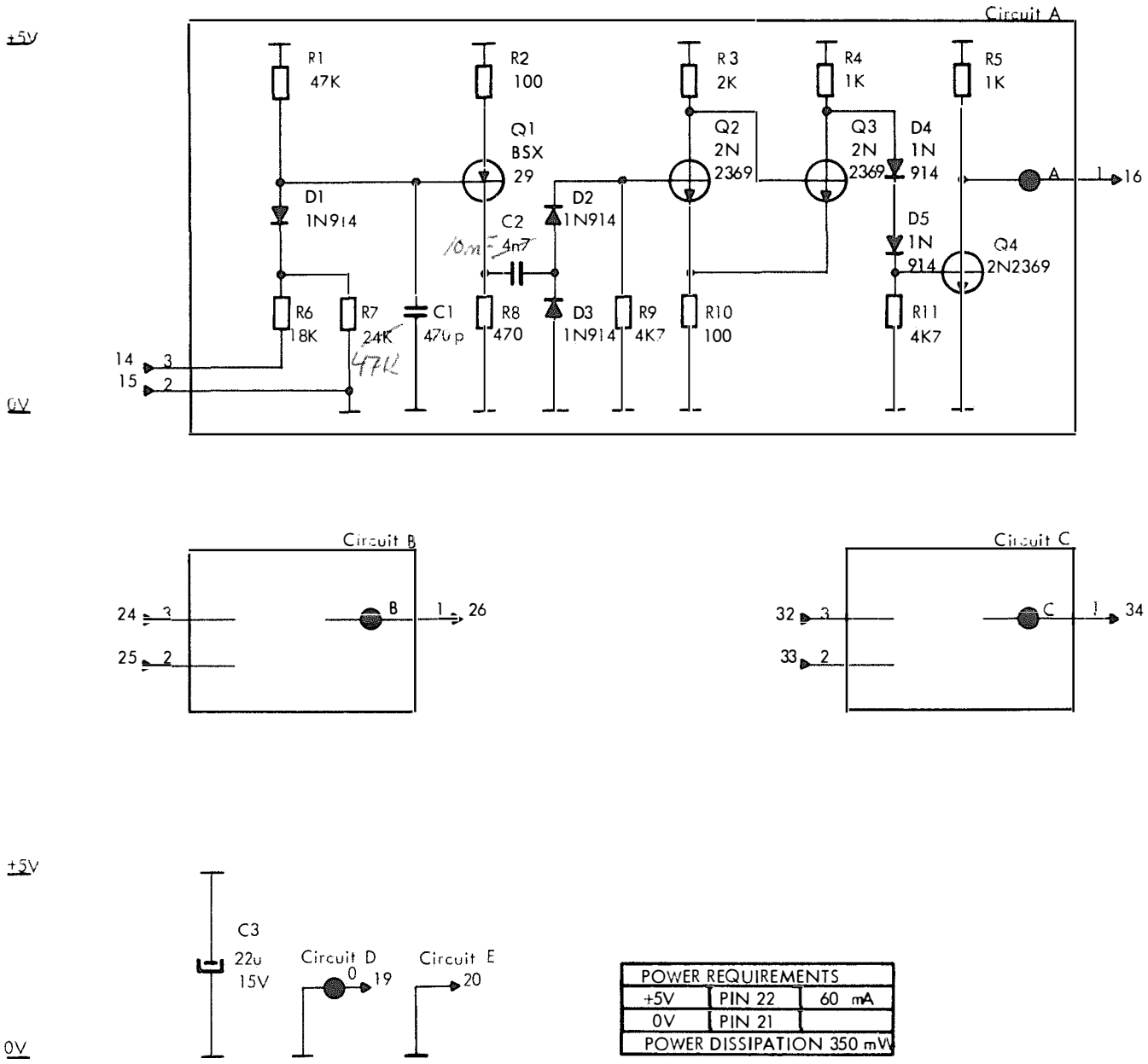


POWER REQUIREMENTS		
+5V	PIN 22	250mA
0V	PIN 21	
POWER DISSIPATION 1250mW		

T1: Miniwat
4322-020-36660

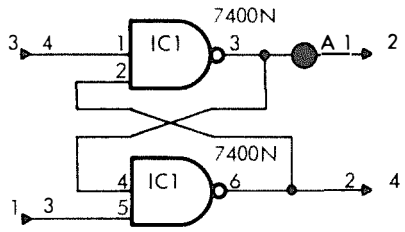
P : 10 wdg ϕ 0,28 mm

S : 30 wdg ϕ 0,20 mm

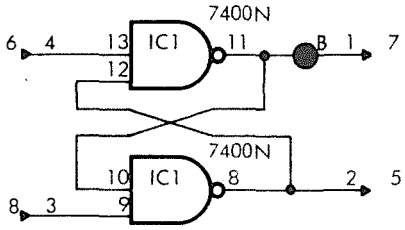


POWER REQUIREMENTS		
+5V	PIN 22	60 mA
0V	PIN 21	
POWER DISSIPATION 350 mW		

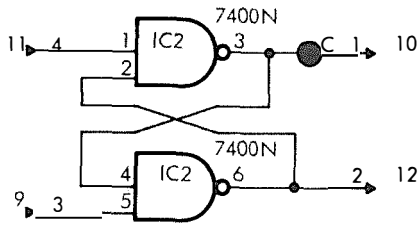
Circuit A
BA403



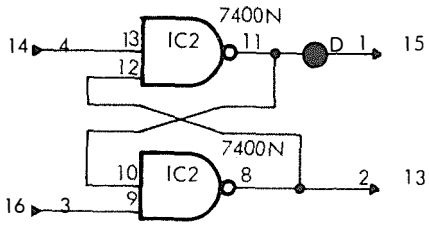
Circuit B
BA403



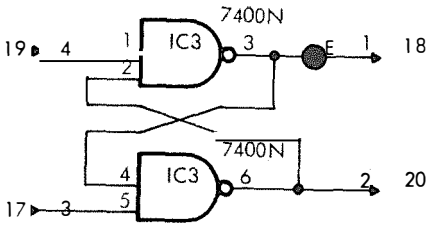
Circuit C
BA403



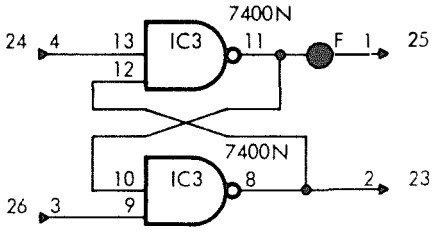
Circuit D
BA403



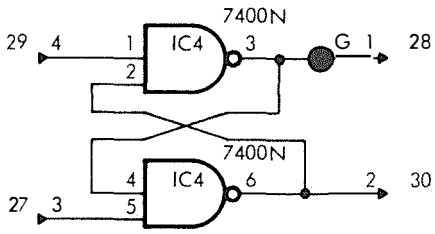
Circuit E
BA403



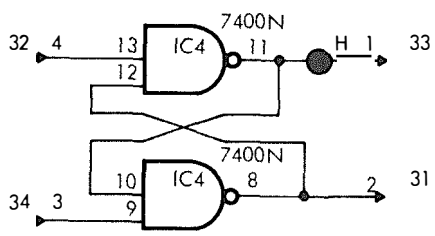
Circuit F
BA403



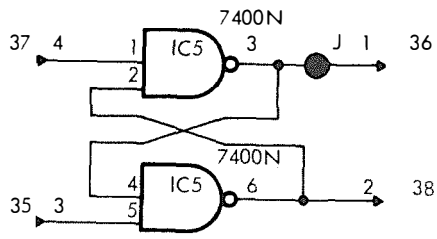
Circuit G
BA403



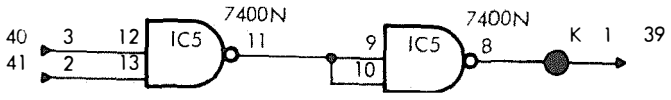
Circuit H
BA403

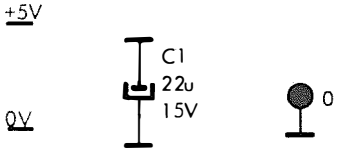


Circuit J
BA403



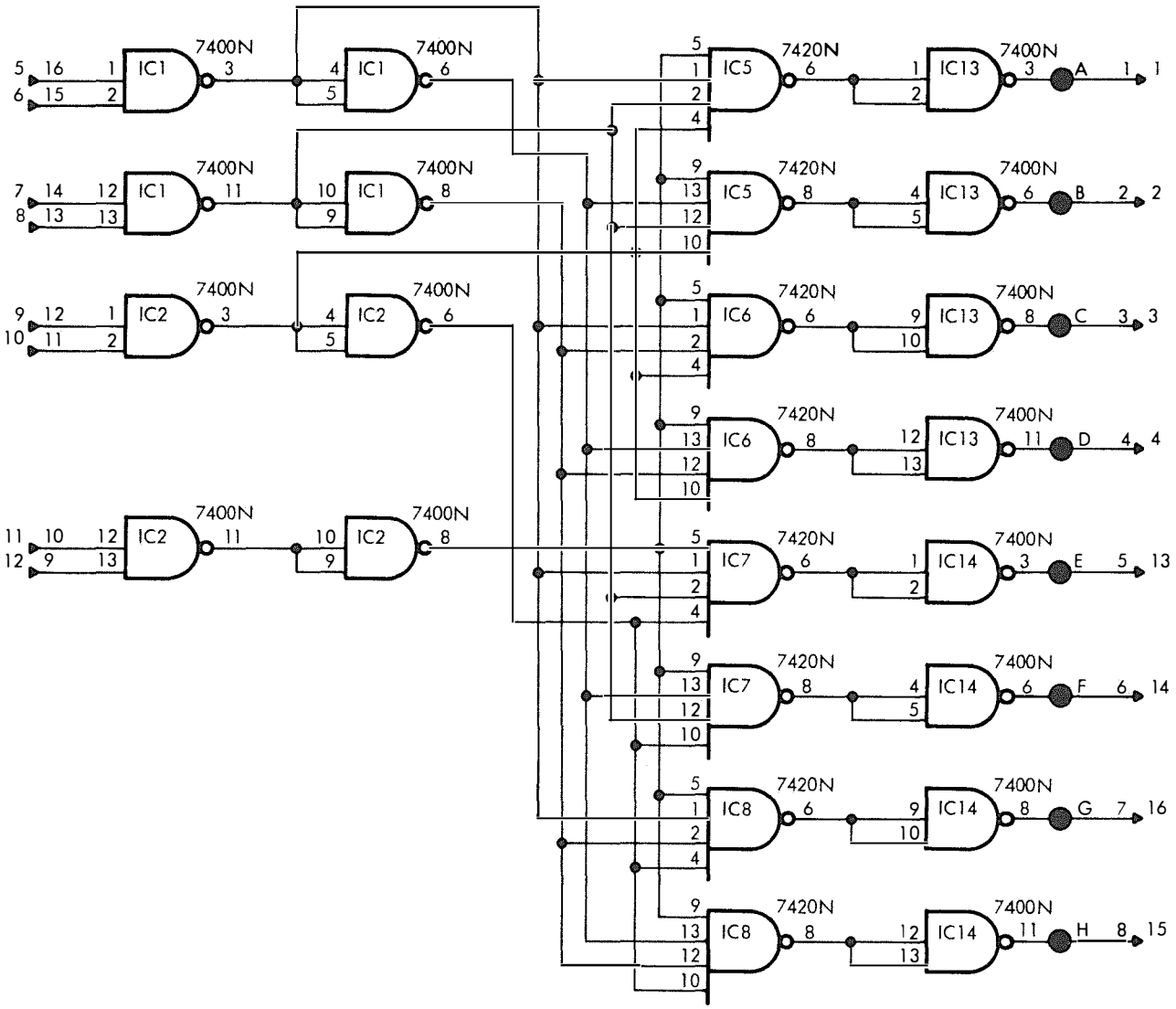
Circuit K
AA405



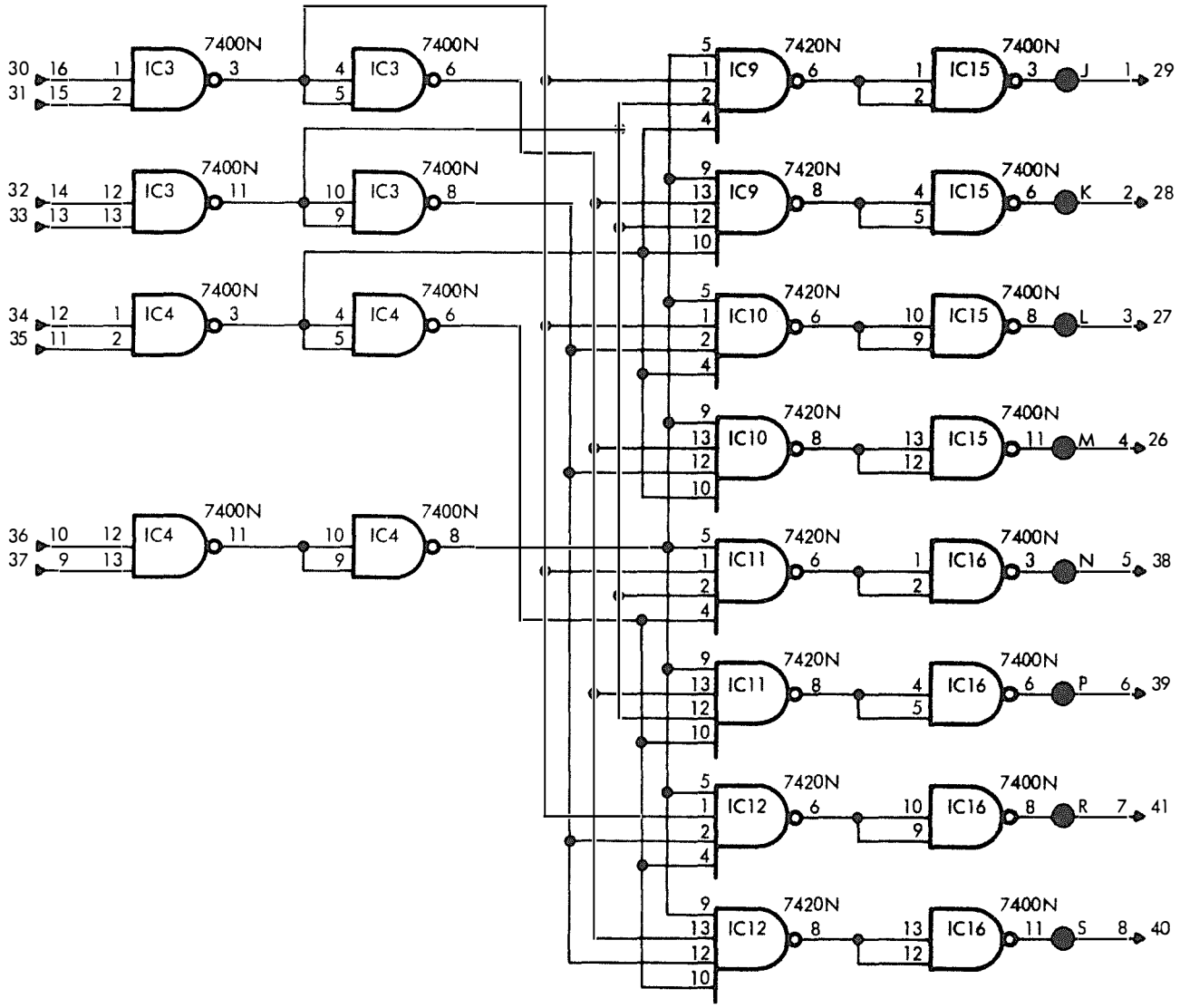


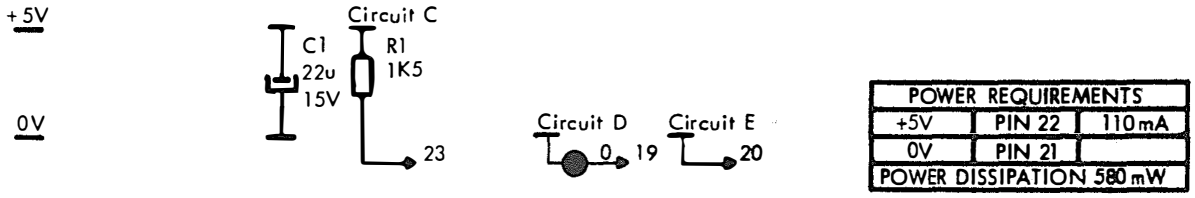
POWER REQUIREMENTS		
+5 V	PIN 22	44mA
0 V	PIN 21	
POWER DISSIPATION 235mW		

Circuit A

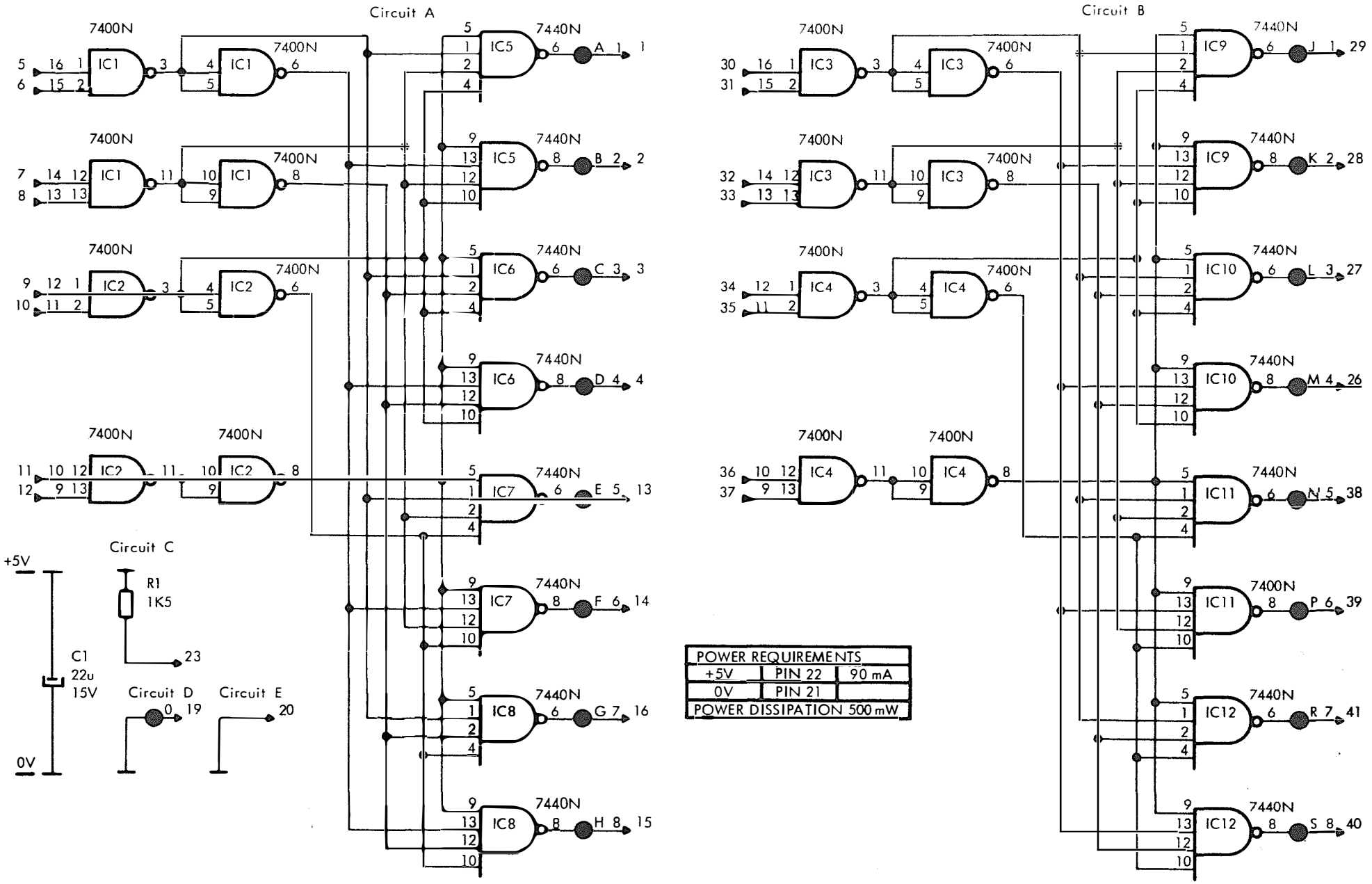

7400N
IC1
7400N
IC1
7400N
IC1
7400N
IC1
7400N
IC2
7400N
IC2
7400N
IC2
7400N
IC2
7420N
IC5
7420N
IC5
7420N
IC6
7420N
IC6
7420N
IC7
7420N
IC7
7420N
IC8
7420N
IC8
7400N
IC13
7400N
IC13
7400N
IC13
7400N
IC13
7400N
IC14
7400N
IC14
7400N
IC14
7400N
IC14
A
B
C
D
E
F
G
H

Circuit B

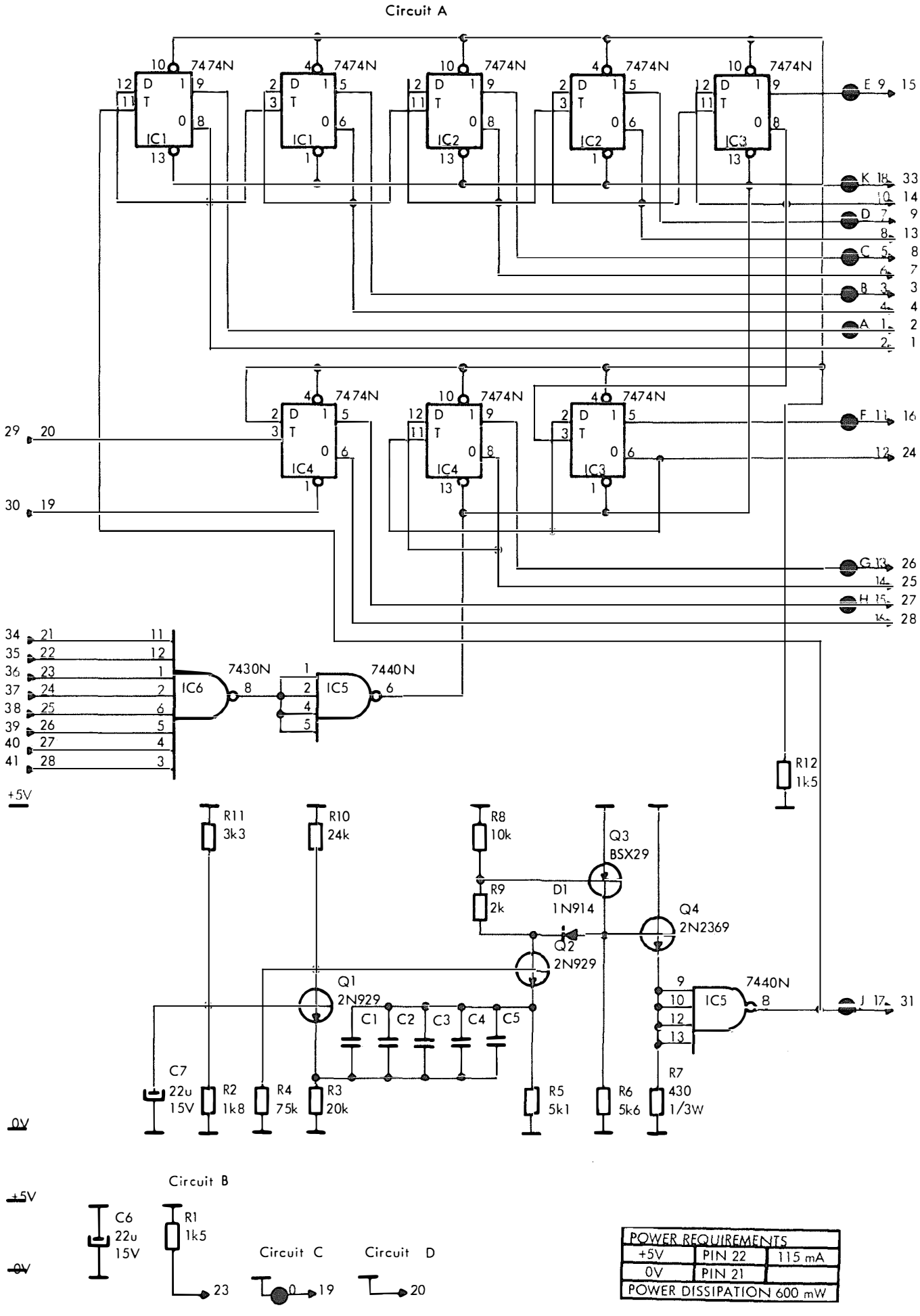




POWER REQUIREMENTS		
+5V	PIN 22	110 mA
0V	PIN 21	
POWER DISSIPATION 580 mW		

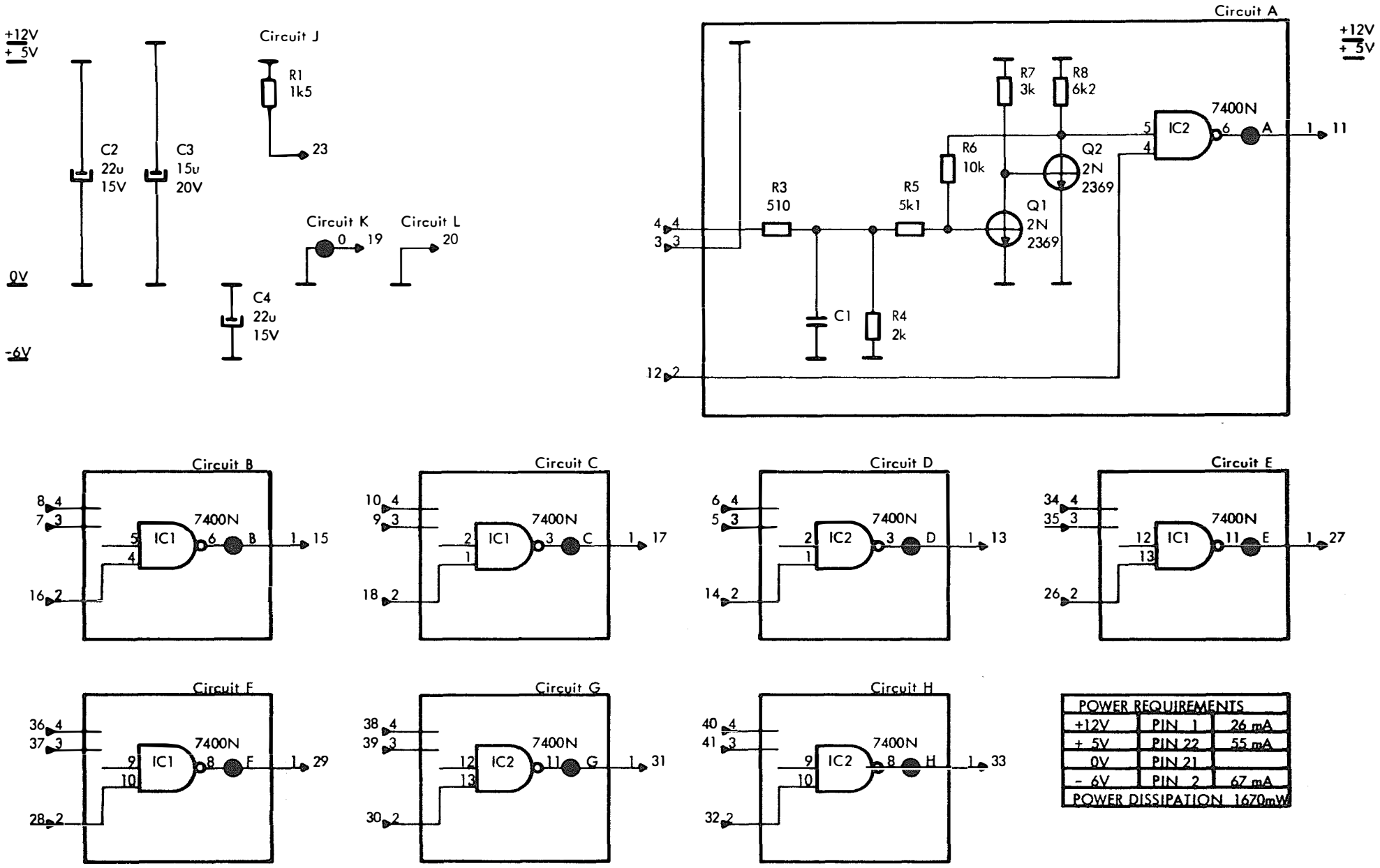


POWER REQUIREMENTS		
+5V	PIN 22	90 mA
0V	PIN 21	
POWER DISSIPATION 500 mW		

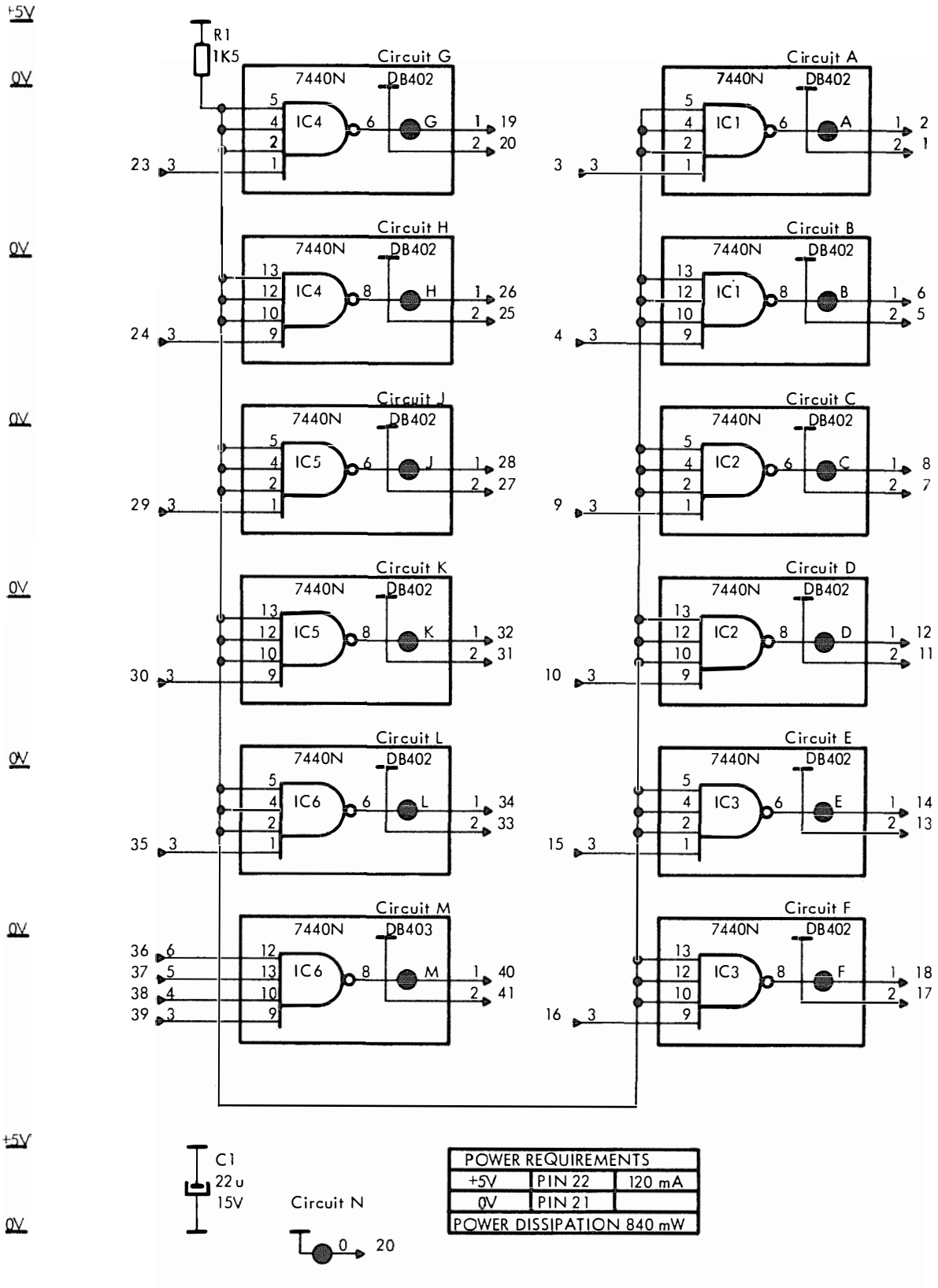


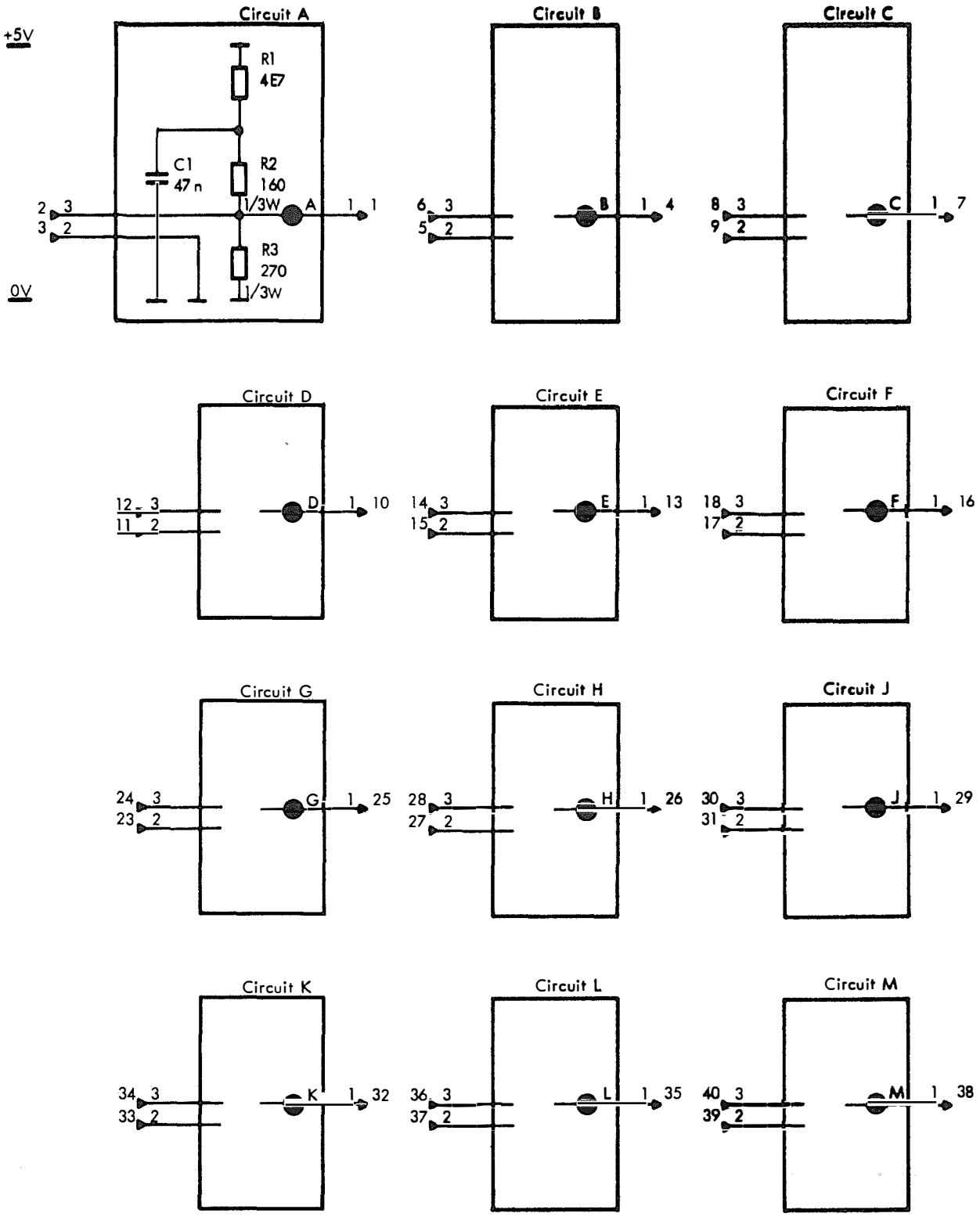
RCLM400 1CC404 RC0888 - 1/

V11441 PCBA Circuit Diagram

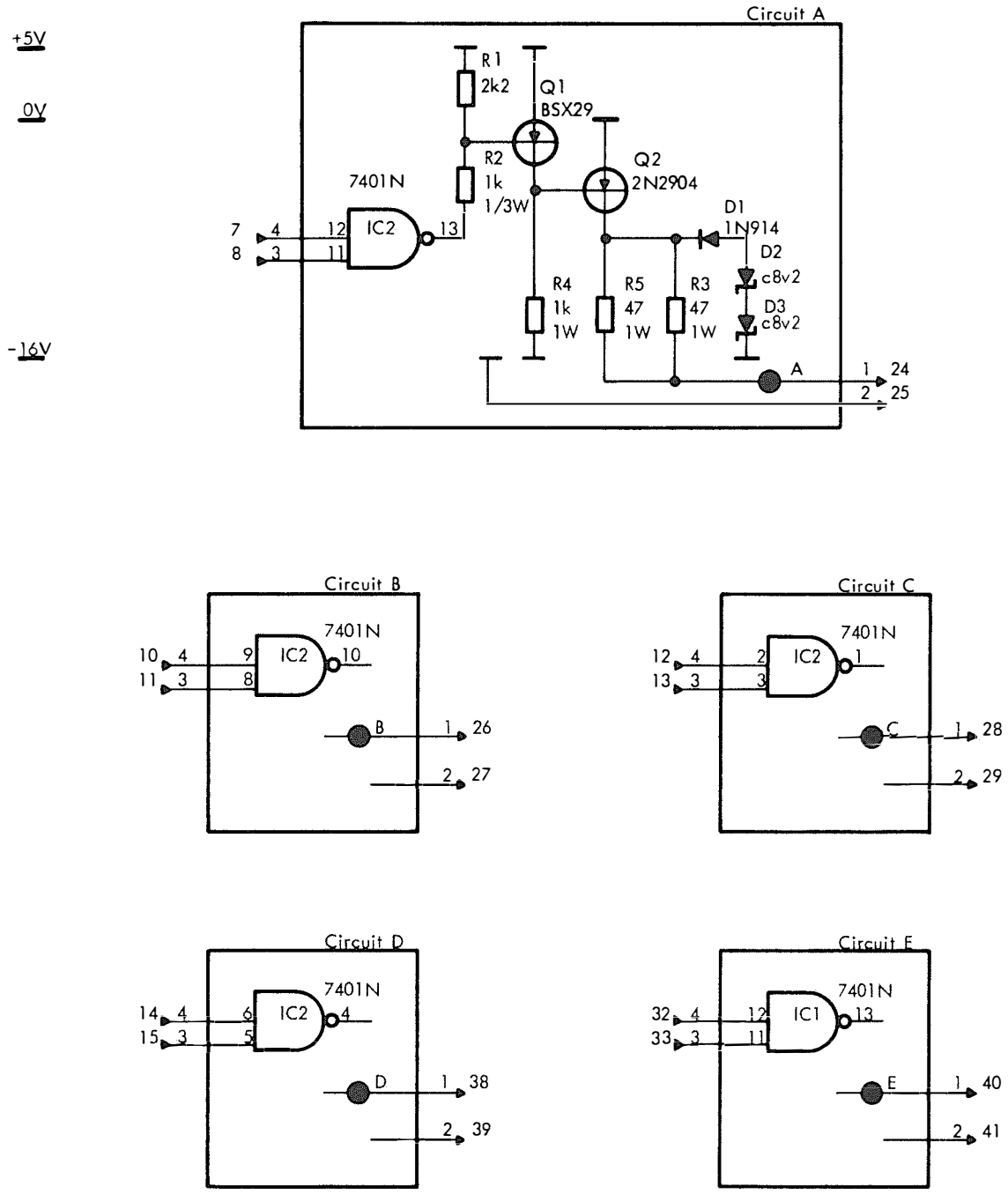


POWER REQUIREMENTS		
+12V	PIN 1	26 mA
+ 5V	PIN 22	55 mA
0V	PIN 21	
- 6V	PIN 2	67 mA
POWER DISSIPATION 1670mW		


+5V
0V
R1
1K5
Circuit G
7440N
DB402
IC4
G
23
19
20
Circuit A
IC1
A
3
2
1
Circuit H
H
24
26
25
Circuit B
B
4
6
5
Circuit J
IC5
J
29
28
27
Circuit C
IC2
C
9
8
7
Circuit K
K
30
32
31
Circuit D
D
10
12
11
Circuit L
IC6
L
35
34
33
Circuit E
IC3
E
15
14
13
Circuit M
7440N
DB403
M
36
37
38
39
40
41
Circuit F
F
16
18
17
C1
22u
15V
Circuit N
0
20
POWER REQUIREMENTS
+5V
PIN 22
120 mA
0V
PIN 21
POWER DISSIPATION 840 mW



POWER REQUIREMENTS		
+5V	PIN 22	412mA
0V	PIN 21	
POWER DISSIPATION 2.2W		



POWER REQUIREMENTS		
+5V	PIN 22	160mA
0V	PIN 21	
-16V	PIN 4	105mA
POWER DISSIPATION 2,8 W		

Zenerdiodes are BZY88

060568PEP 280570ML 140471 QL 200171 PEP

RCL/4400

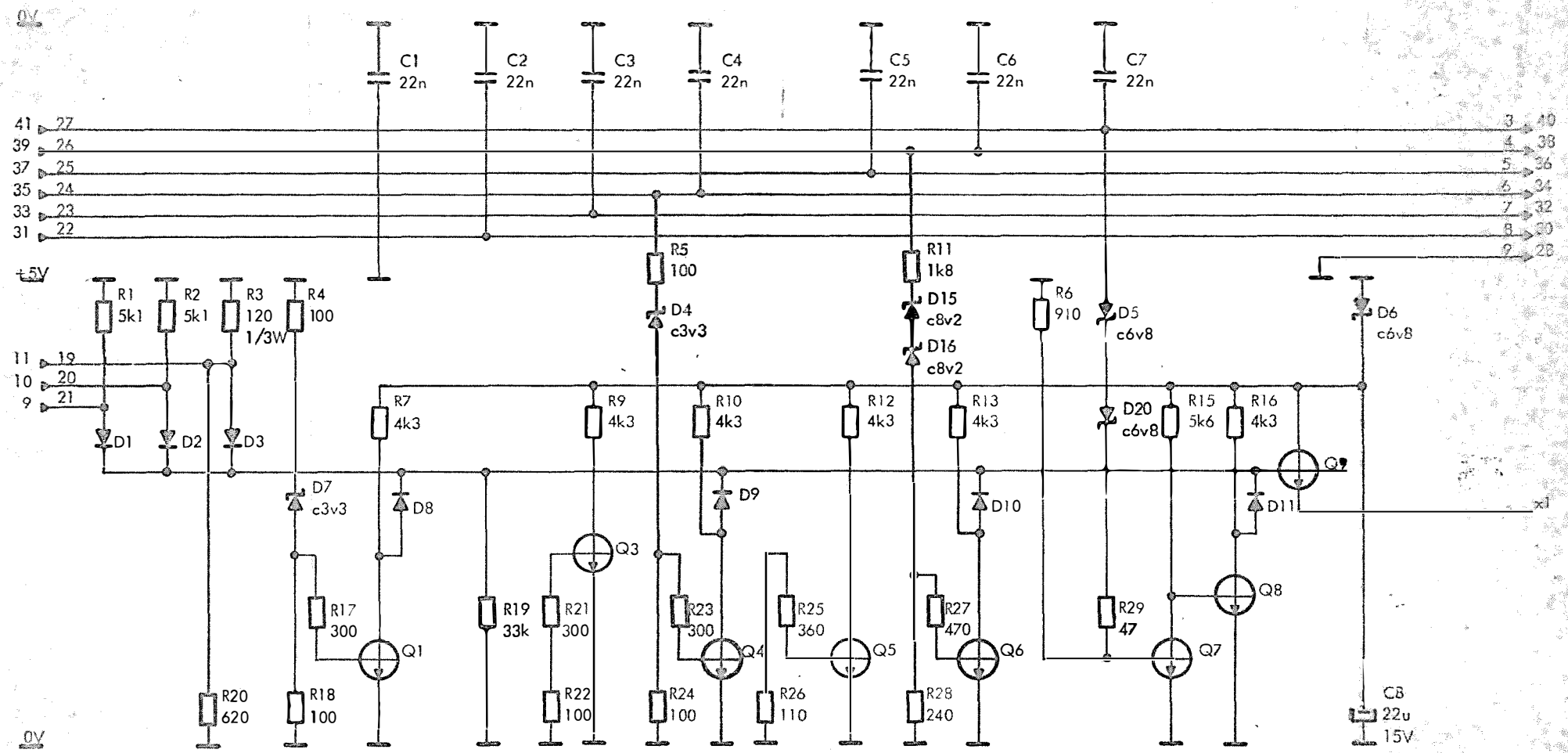
V01970

PCBA Circuit Diagram

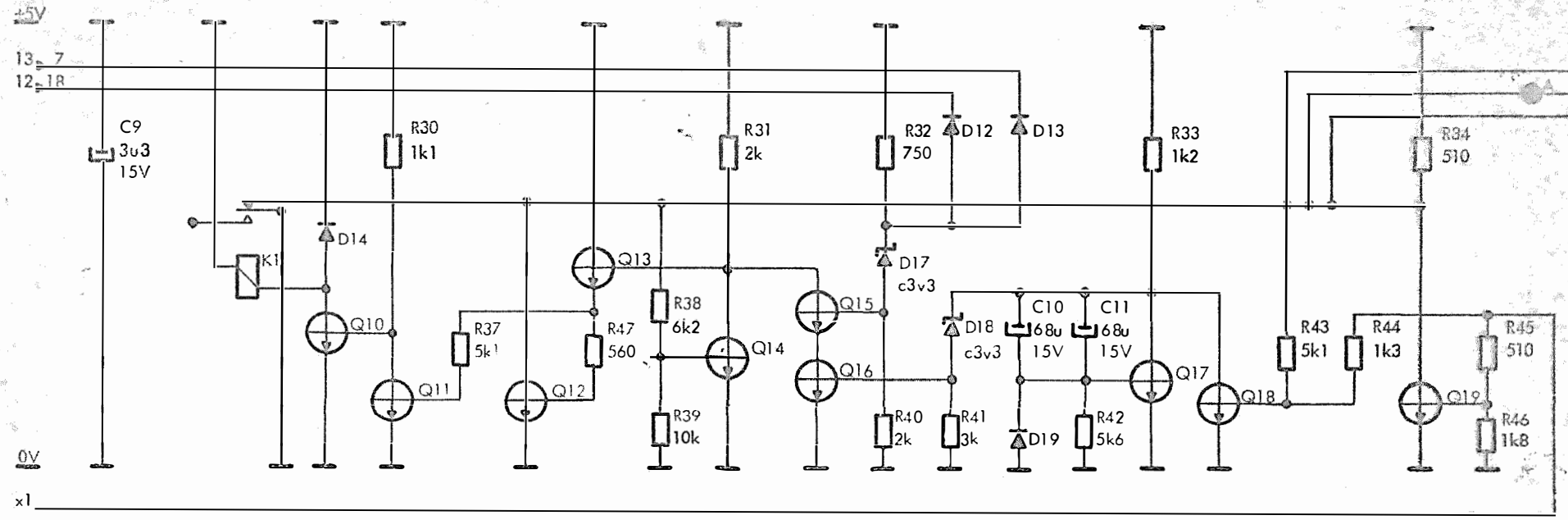
1FF401

RCU830-1

Circuit A



060568PEP 280570ML 140471 QL 200471 PEP



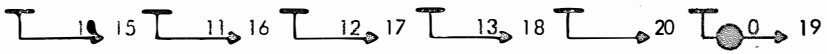
POWER REQUIREMENTS		
+5V	PIN 22	130mA
0V	PIN 21	
POWER DISSIPATION 875mW		

Transistors are 2N2369
Diodes are 1N914
Zenerdiodes are BZY88
Relay ERG MEM01-IRC/G-4V

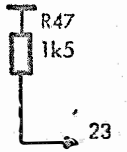
+5V

0V

Circuit C



Circuit B



CLM400 V1171

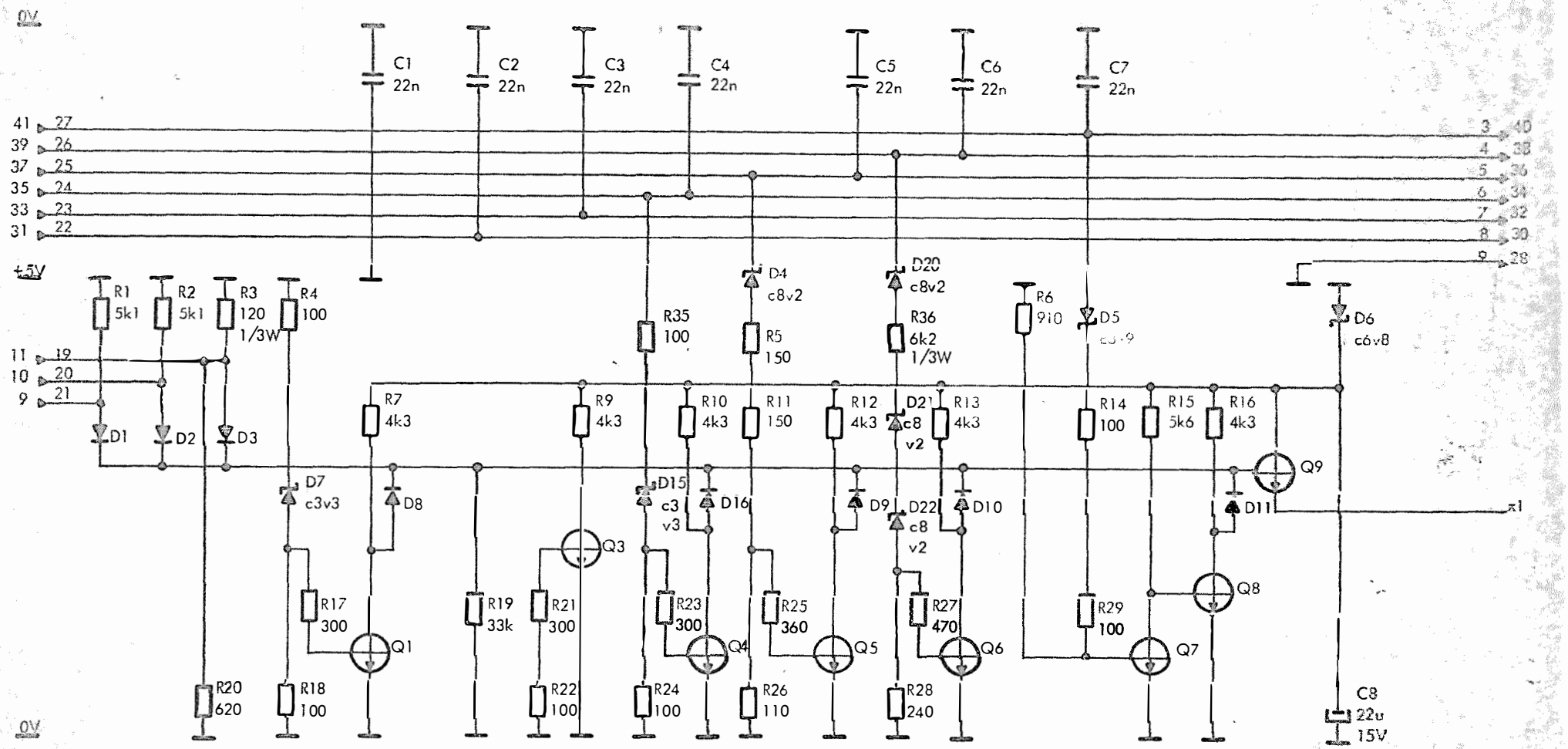
PCBA Circuit Diagram 1FF401

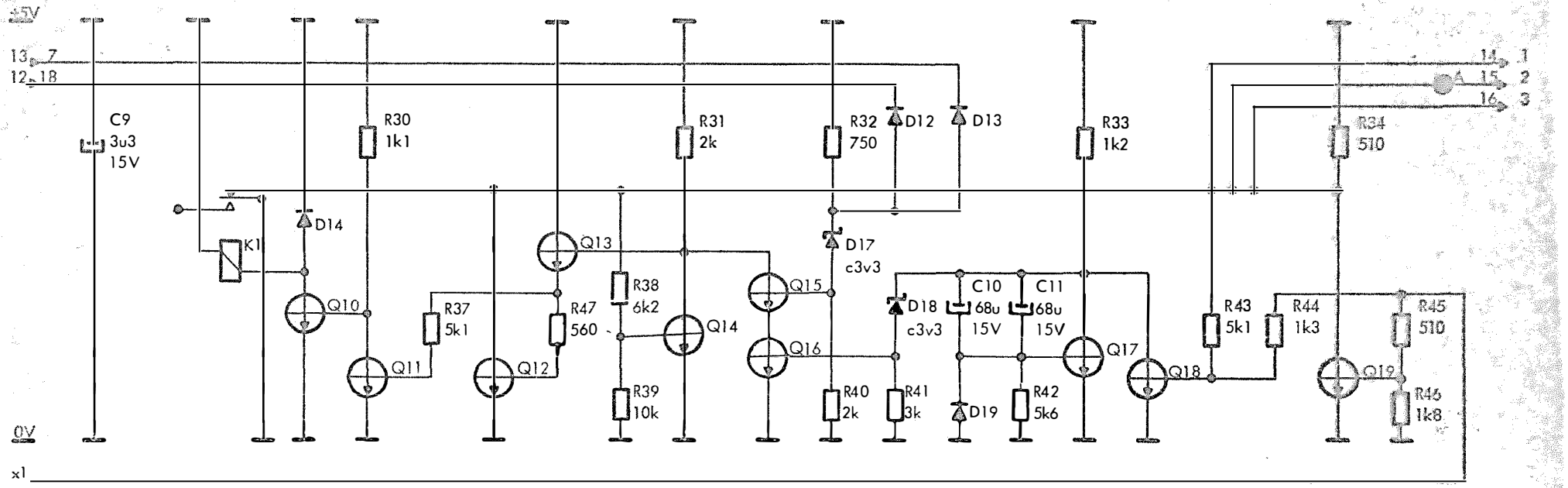
RC0893-1 P. 2 of 2

060568FEP 280570ML 140474 dk 220471 REP

V11972 BCLAN00 1FF402 PCBA Circuit Diagram RC0573 - 2

Circuit A



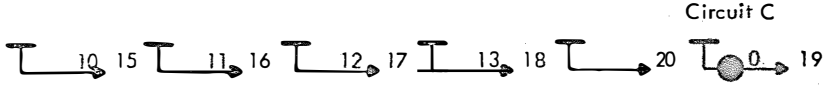


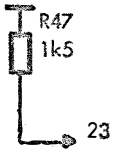
POWER REQUIREMENTS		
+5V	PIN 22	130mA
0V	PIN 21	
POWER DISSIPATION 1015mW		

Transistors are 2N2369
Diodes are 1N914
Zenerdiodes are BZY88
Relay ERG MEM01-IRC/G-4V

+5V

0V



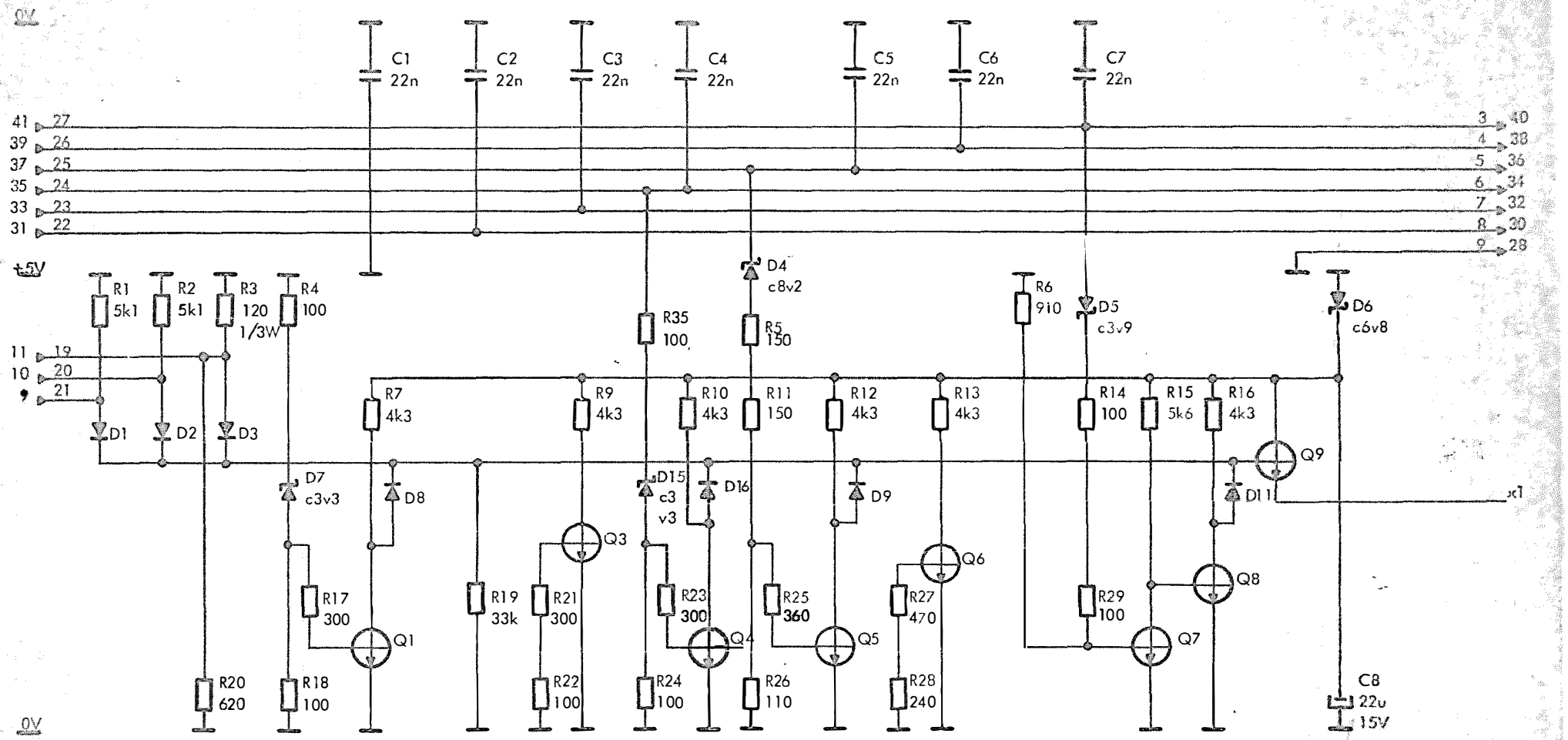


060568PEP 280570ML 110491 ML 220491 FEP

RC1M00 V11774

PCBA Circuit Diagram 1F403

Circuit A

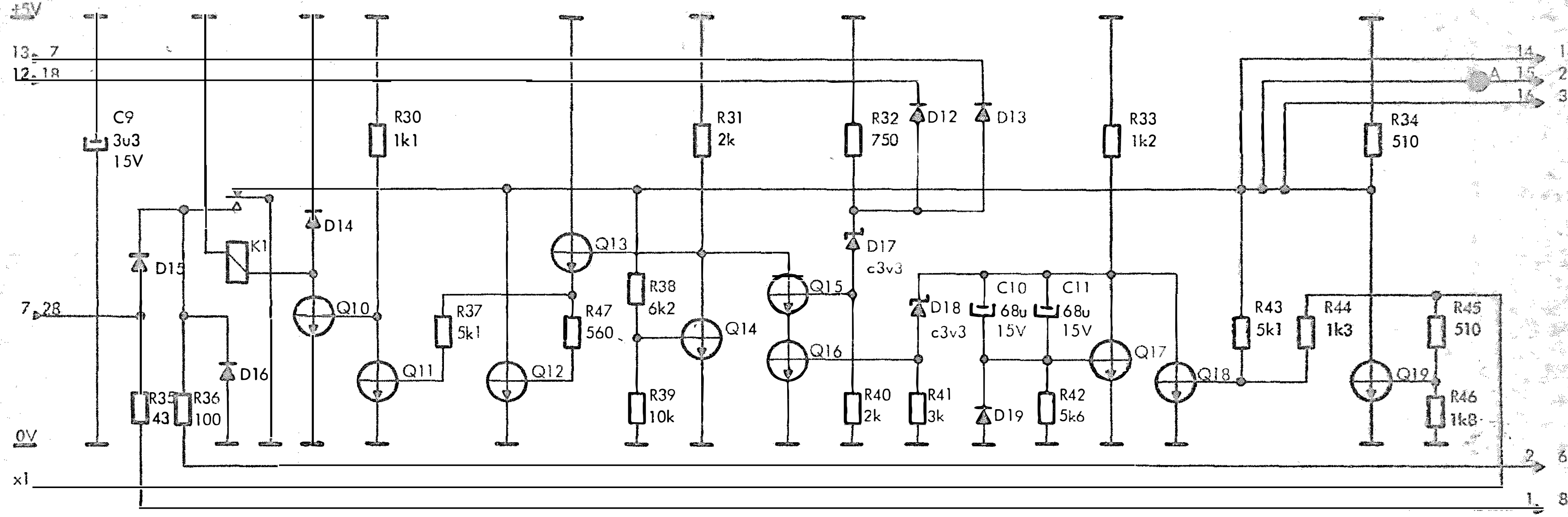


RC0893 - 3

060568PEP 280570ML 140471 al 200171 PEP

PCBA Circuit Diagram

1FF403

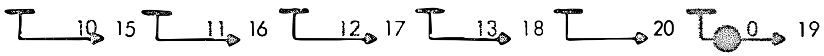


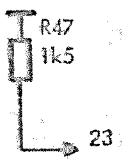
POWER REQUIREMENTS		
+5V	PIN 22	130mA
V	PIN 21	
POWER DISSIPATION 765mW		

Transistors are 2N2369
Diodes are 1N914
Zenerdiodes are BZY88
Relay ERG MEM01-IRC/G-4V

+5V

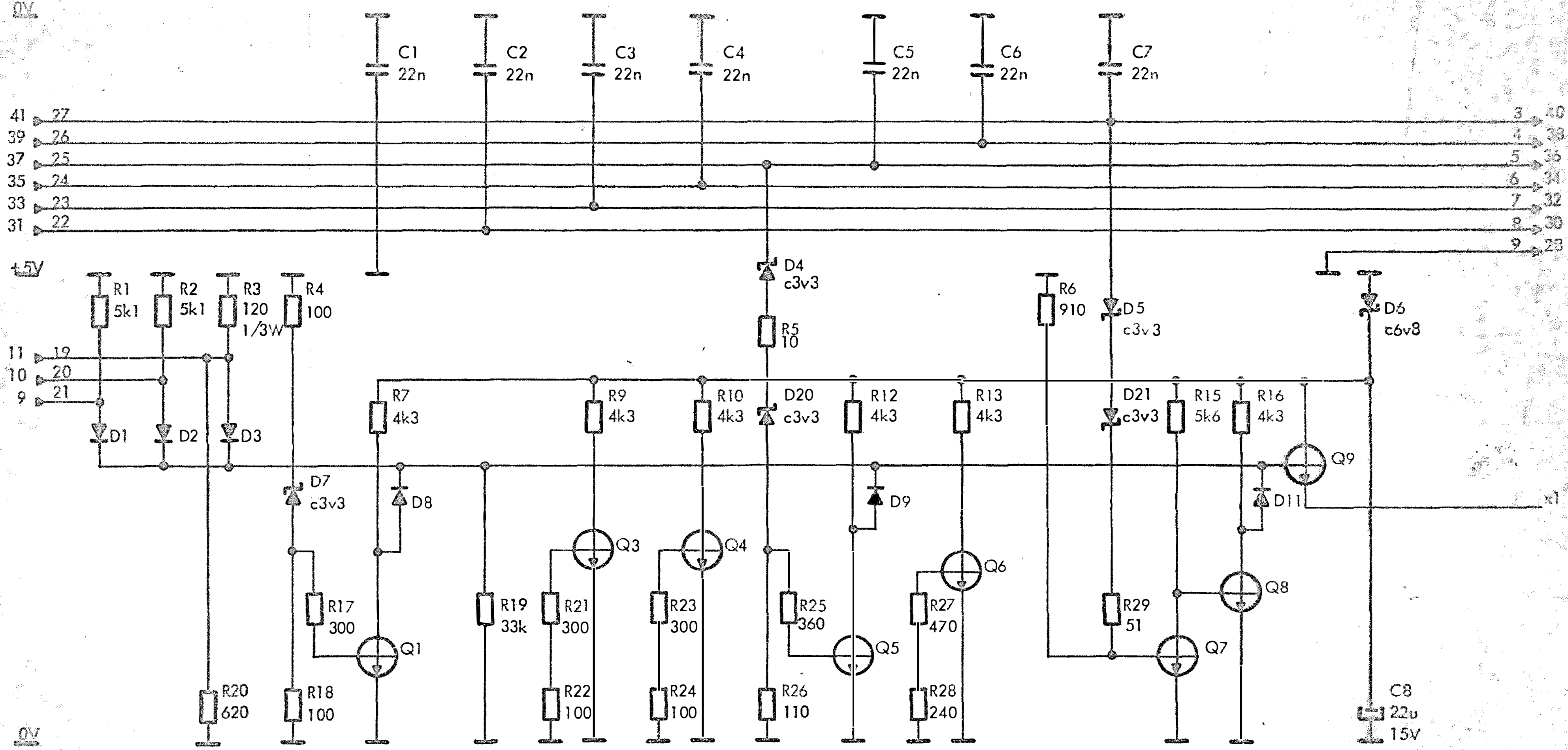
0V





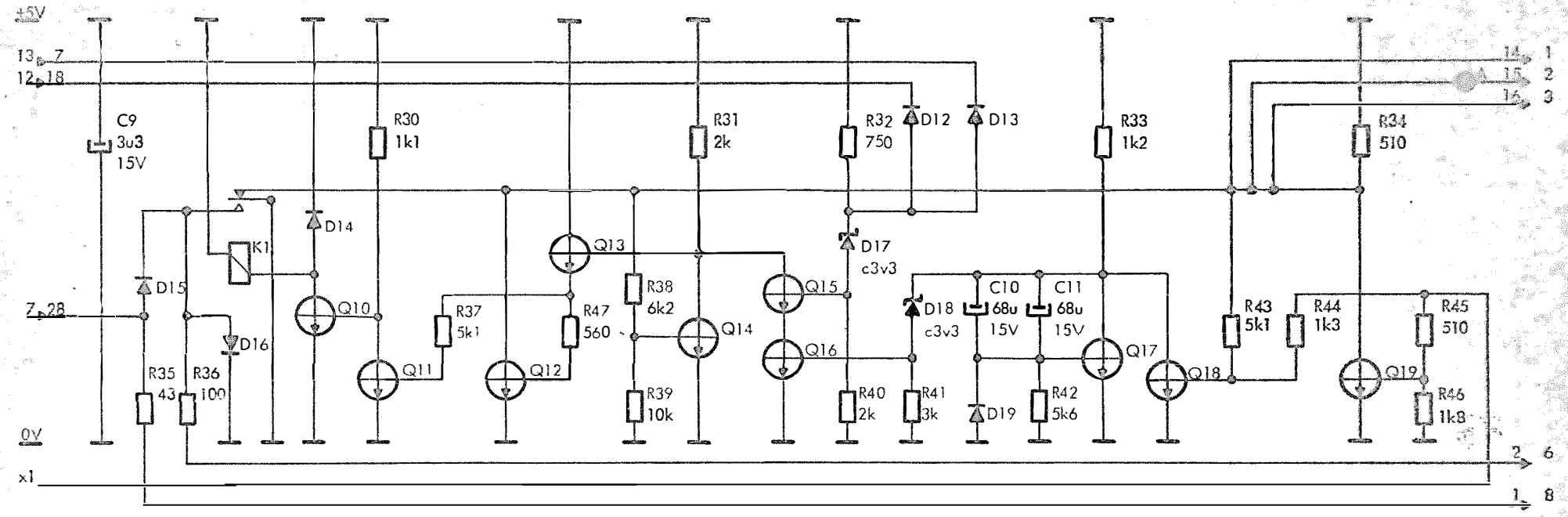
060568PEP 280570ML 140471 OL 200471 PEP

Circuit A



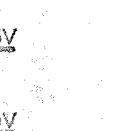
1FF404
PCBA Circuit Diagram

060568PEP 280570ML 140471 200171 PEP

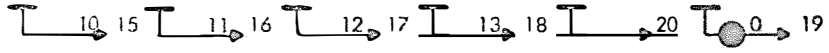


POWER REQUIREMENTS		
+5V	PIN 22	130mA
0V	PIN 21	
POWER DISSIPATION 730mW		

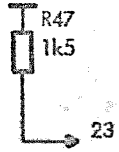
Transistors are 2N2369
Diodes are 1N914
Zenerdiodes are BZY88
Relay ERG MEM01-IRC/G-4V



Circuit C



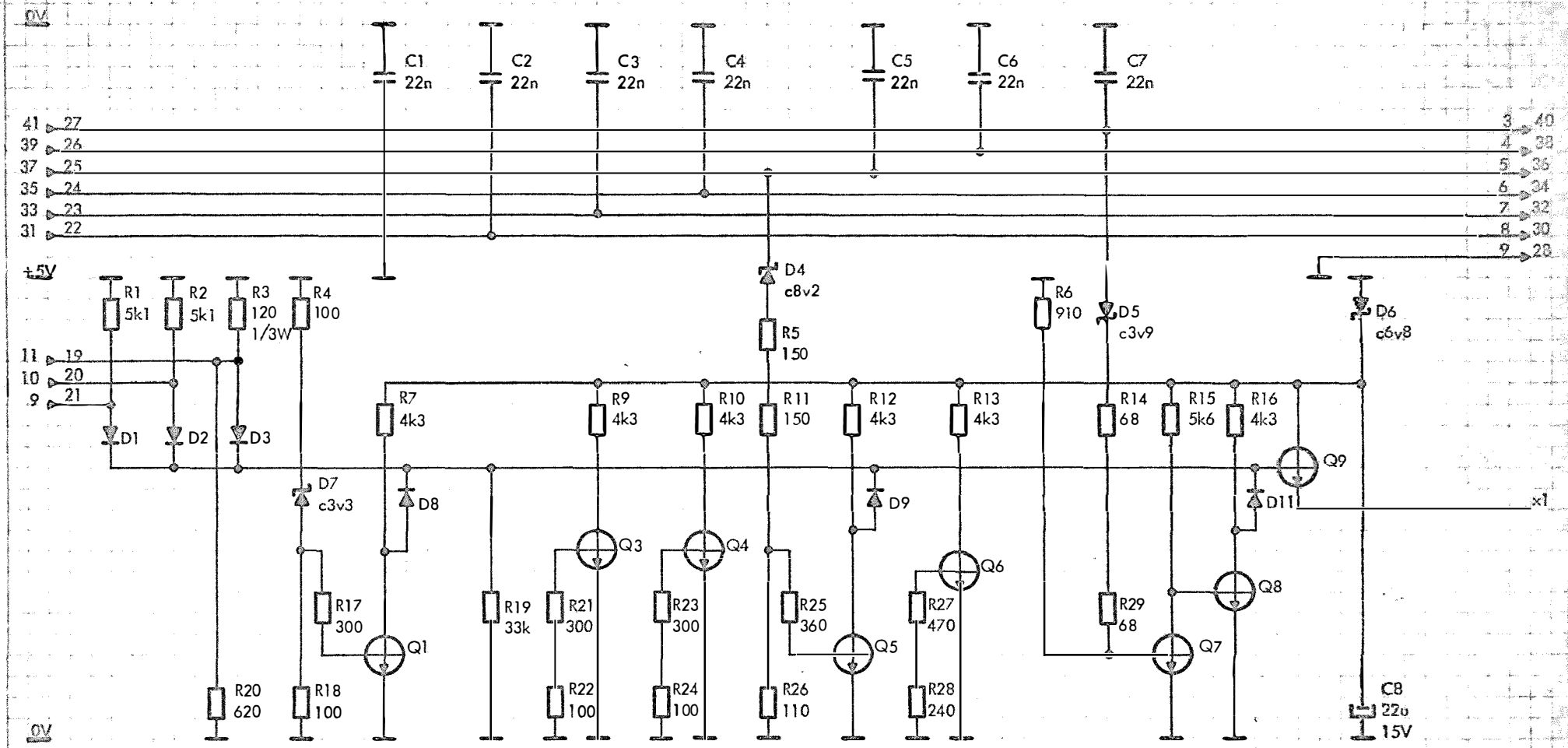
Circuit B



ELECTRALEN	Designed by 060568PEP	Drawn by 280570ML	Dwg. Check 140491 JL	Design Check 200471 PEP	Replaces Dwg. No.	Issued for Use	Issued by Dwg. No.

PCBA Circuit Diagram 1FF405 ICL1400 V11/79

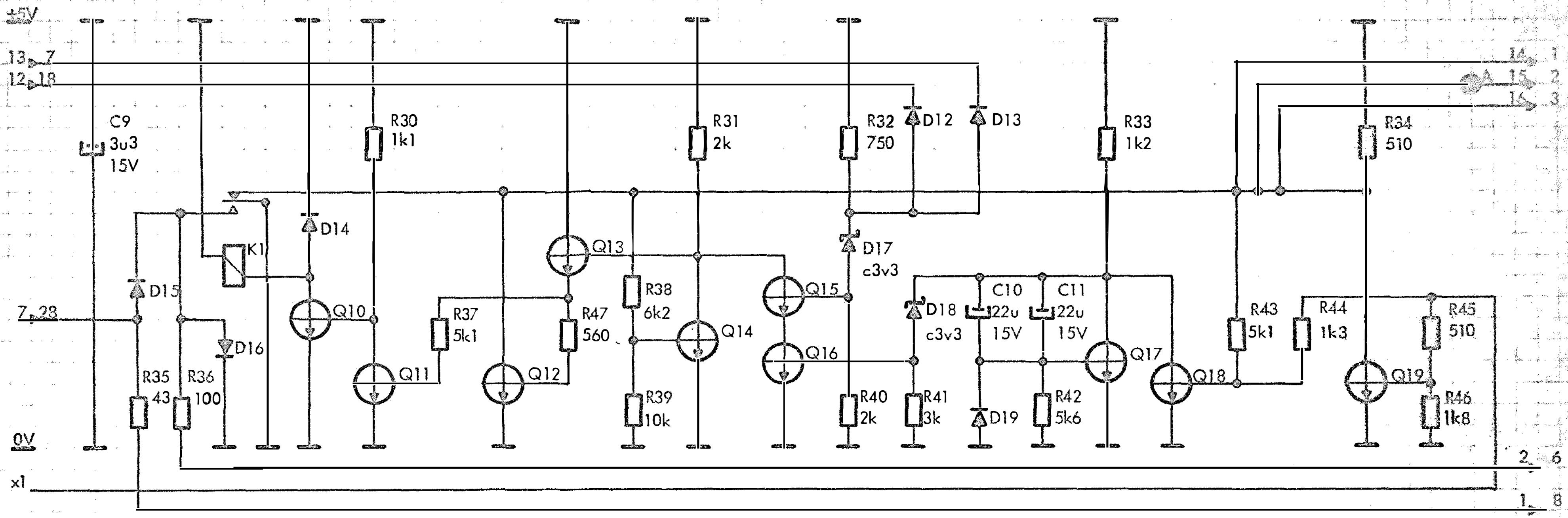
Circuit A



TECENTRALEN	Designed by	Drawn by	Dwg. Check	Design Check	Replaces Dwg. No.	due to ECr	ed by Dwg. No.
	060568PEP	280570ML	140471 QL	200471 PEP			

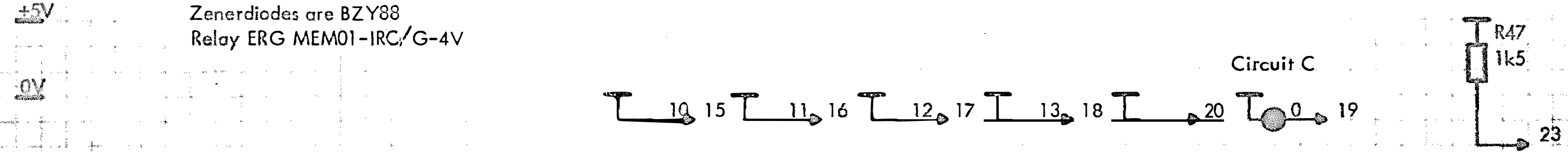
PCBA Circuit Diagram

1FF405

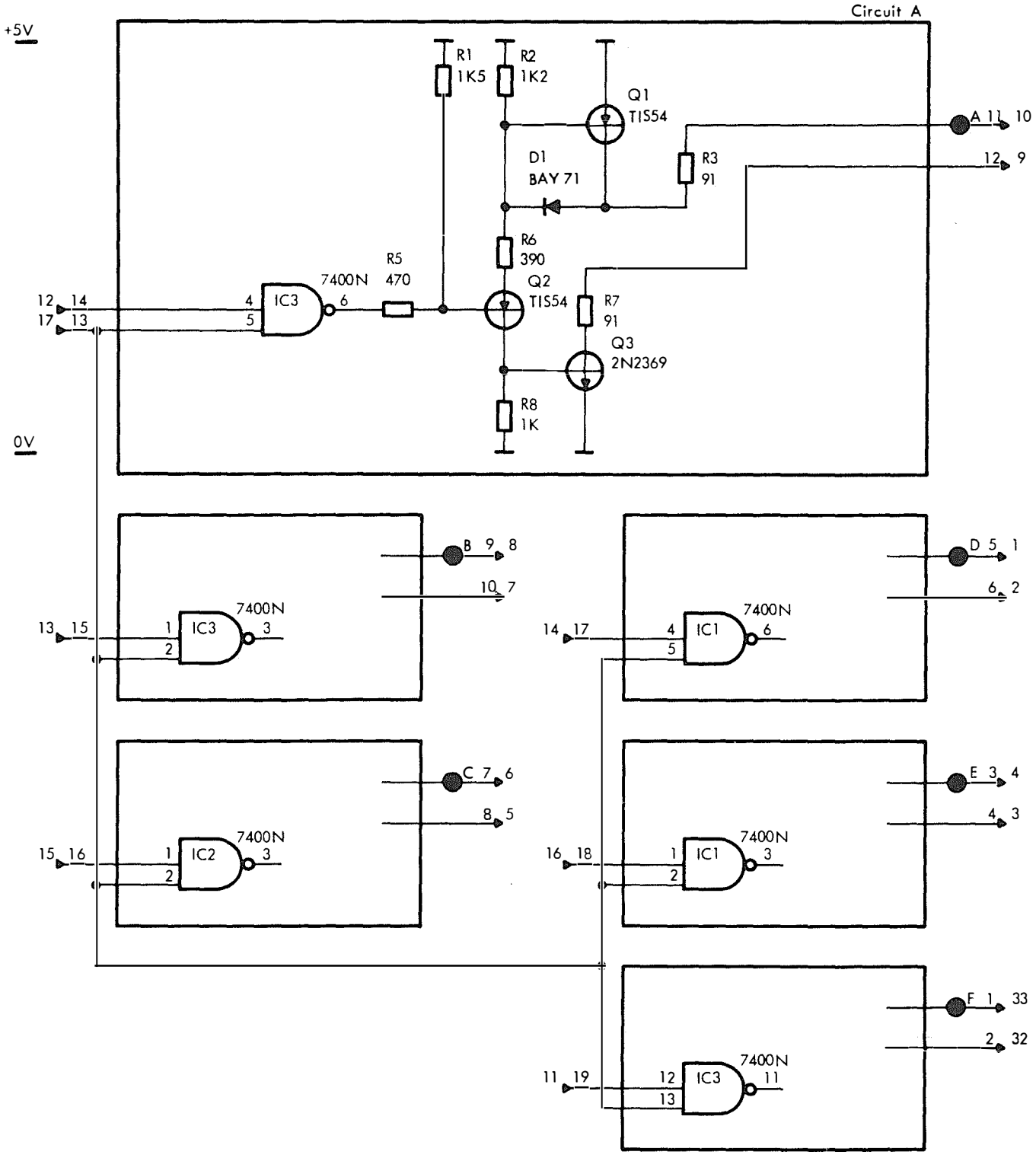


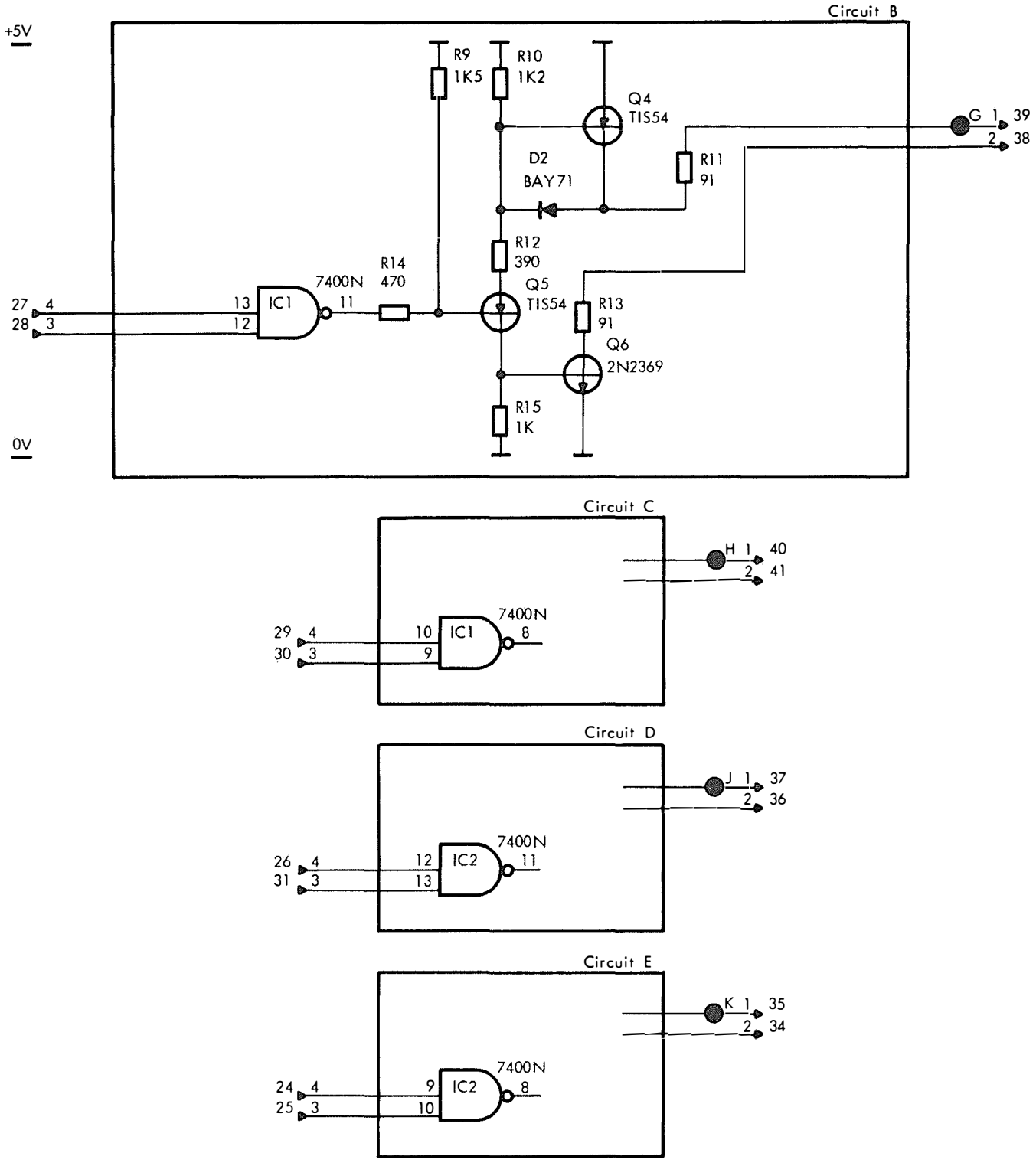
POWER REQUIREMENTS		
+5V	PIN 22	130mA
0V	PIN 21	
POWER DISSIPATION 765mW		

Transistors are 2N2369
Diodes are 1N914
Zenerdiodes are BZY88
Relay ERG MEM01-IRC/G-4V

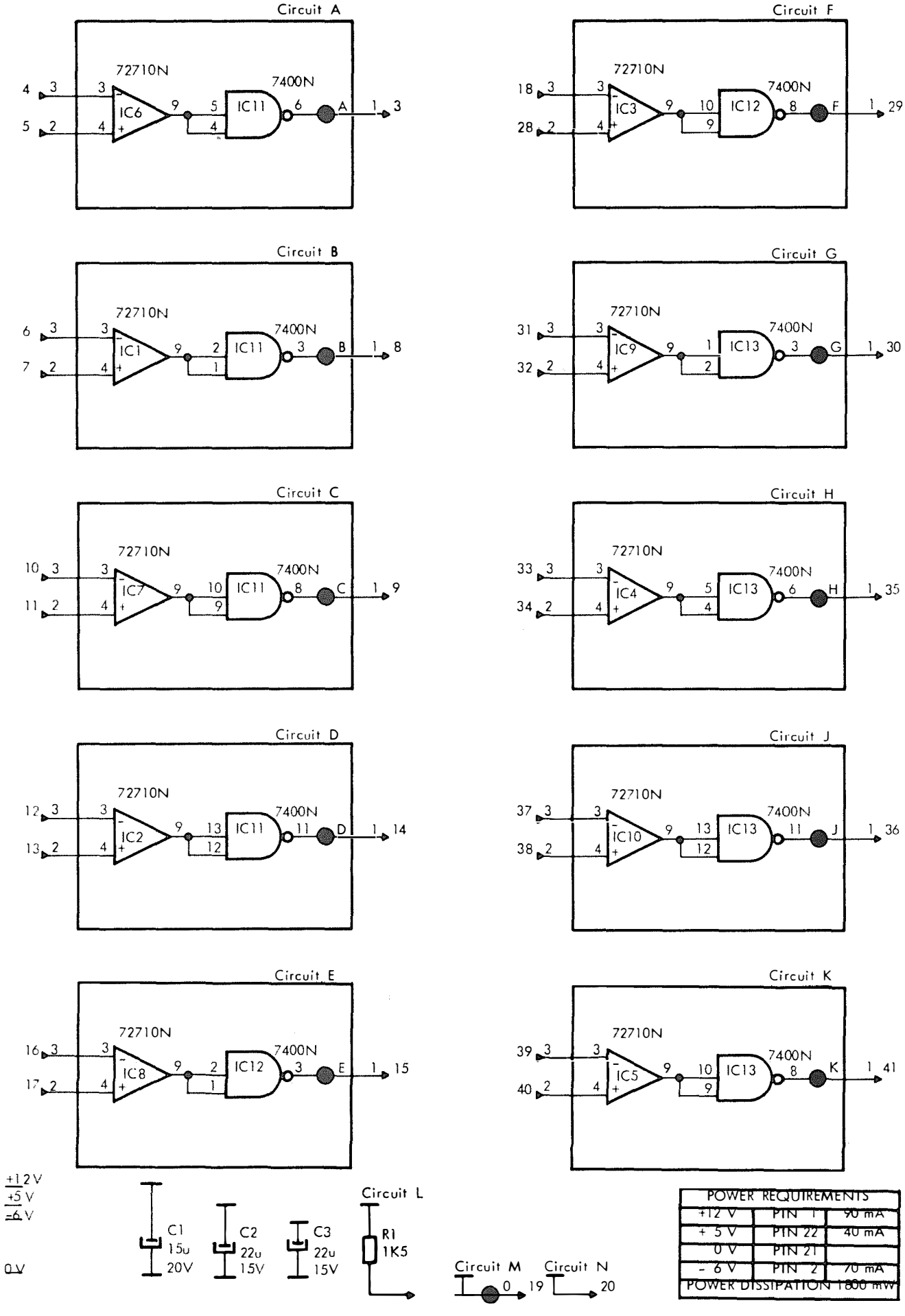


RC0393-5

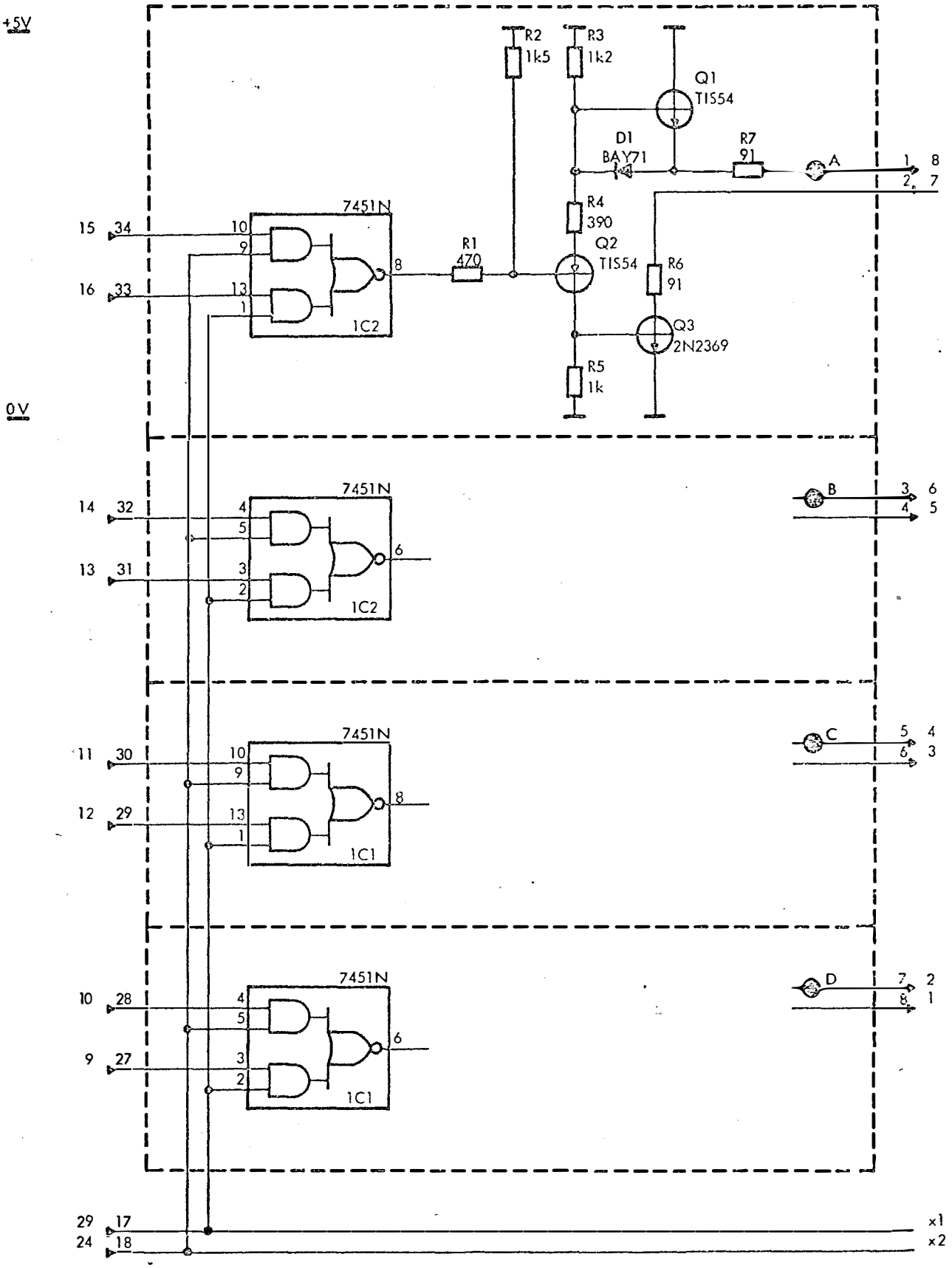

Circuit A
+5V
0V
R1
1K5
R2
1K2
Q1
TIS54
D1
BAY 71
R3
91
R6
390
R5
470
7400N
IC3
Q2
TIS54
R7
91
Q3
2N2369
R8
1K
A 11 10
12 9
12 14
17 13
4
5
6
B 9 8
10 7
13 15
1
2
3
D 5 1
6 2
14 17
IC1
C 7 6
8 5
15 16
IC2
E 3 4
4 3
16 18
F 1 33
2 32
11 19
12
13
11

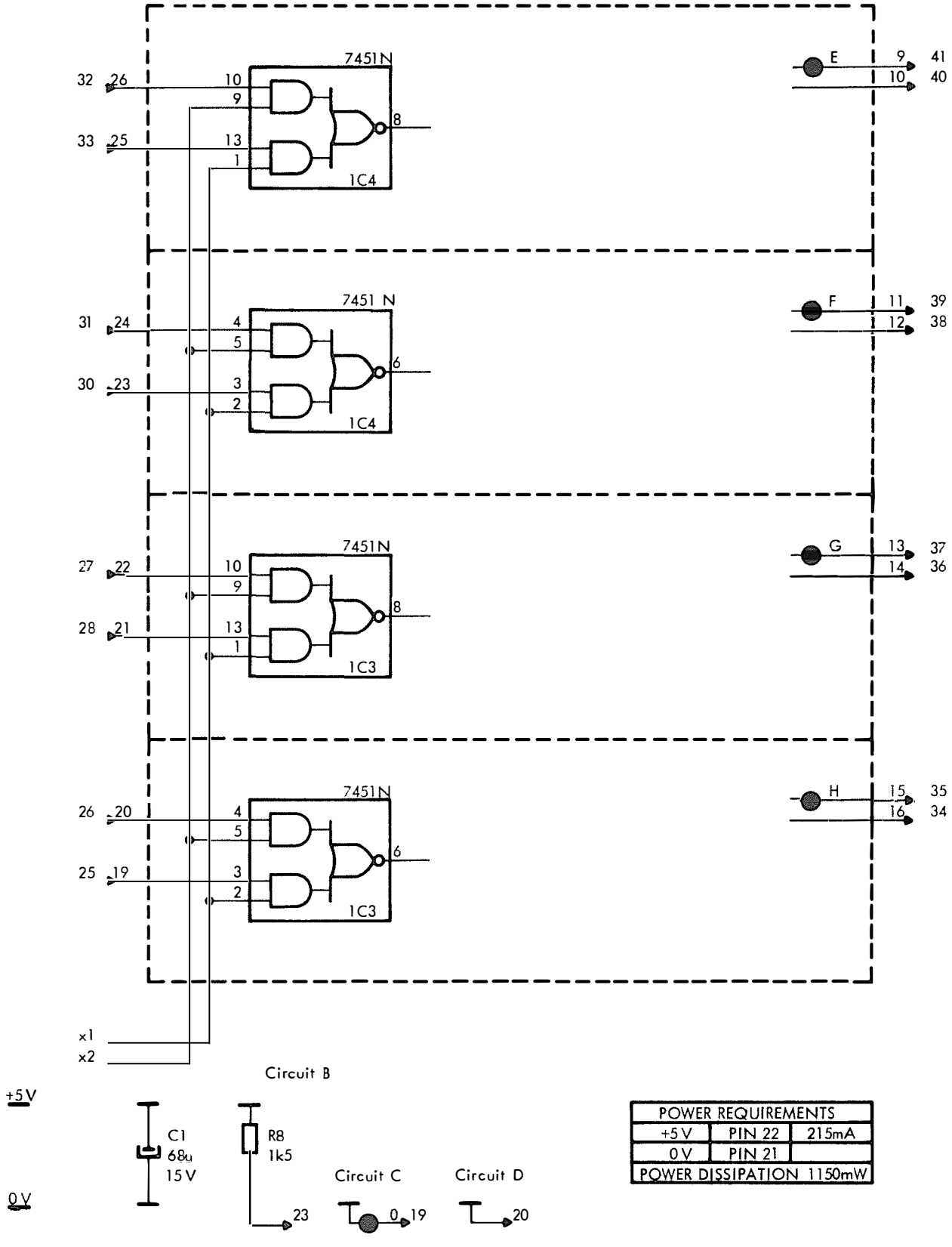


POWER REQUIREMENTS		
+5V	PIN 22	269mA
0V	PIN 21	
POWER DISSIPATION 1420mW		

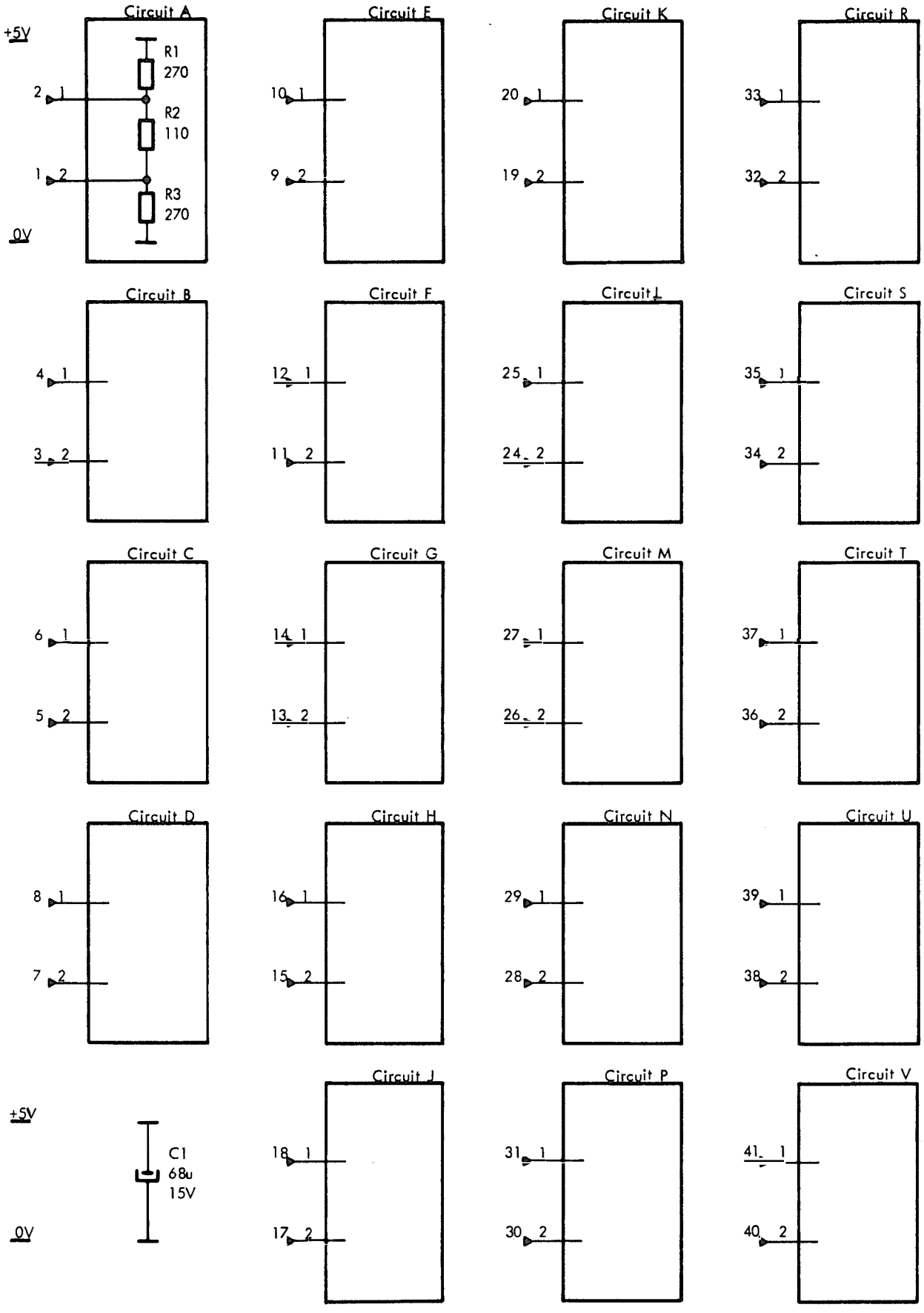


POWER REQUIREMENTS		
+12 V	PIN 1	90 mA
+ 5 V	PIN 22	40 mA
0 V	PIN 21	
- 6 V	PIN 2	70 mA
POWER DISSIPATION 1800 mW		

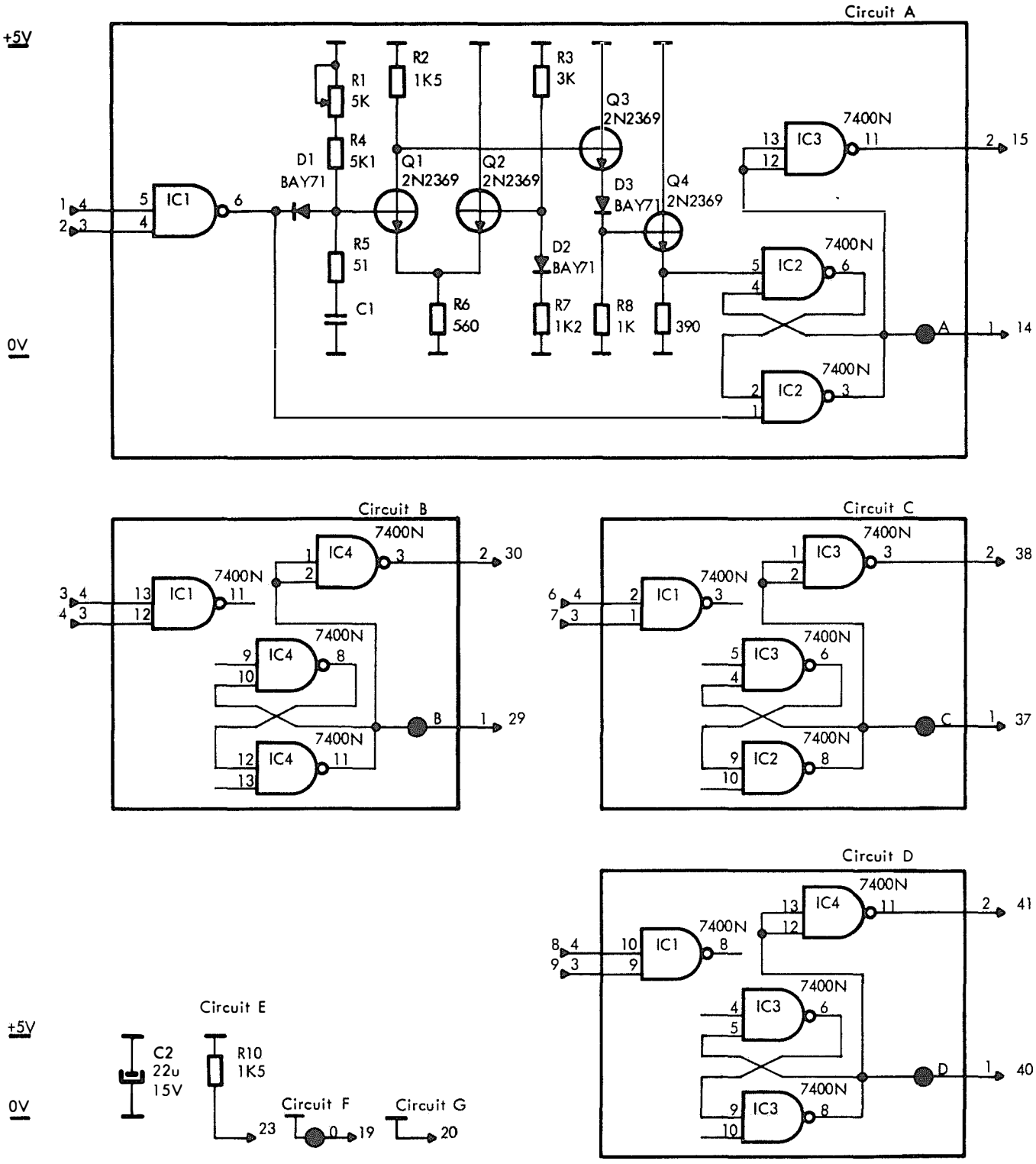

+5V
0V
R2
1k5
R3
1k2
Q1
TIS54
D1
BAY71
R7
91
A
R4
390
Q2
TIS54
R6
91
Q3
2N2369
R5
1k
R1
470
7451N
1C2
7451N
1C2
7451N
1C1
7451N
1C1
B
C
D
15
34
16
33
14
32
13
31
11
30
12
29
10
28
9
27
29
17
24
18
x1
x2



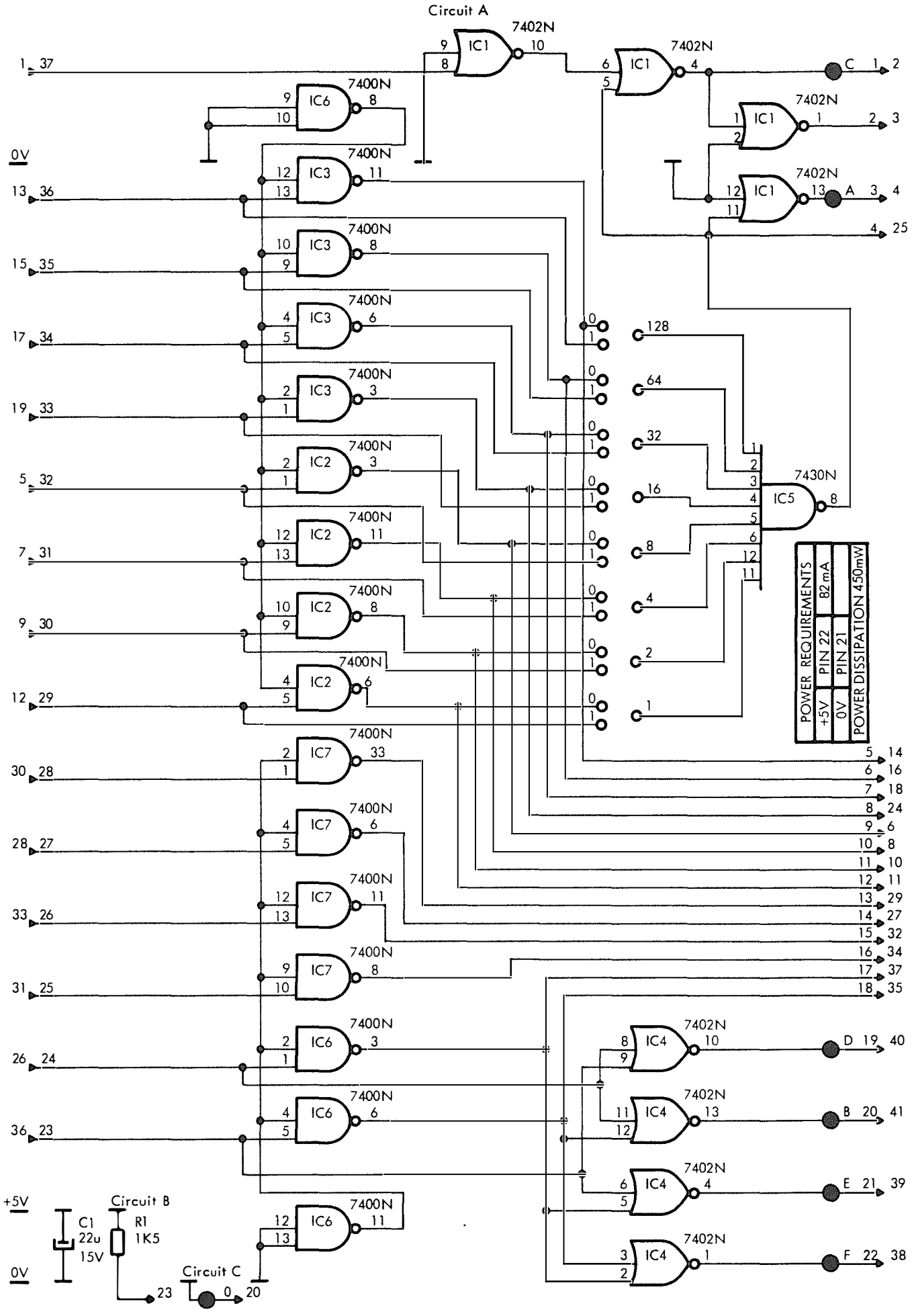
POWER REQUIREMENTS		
+5V	PIN 22	215mA
0V	PIN 21	
POWER DISSIPATION 1150mW		



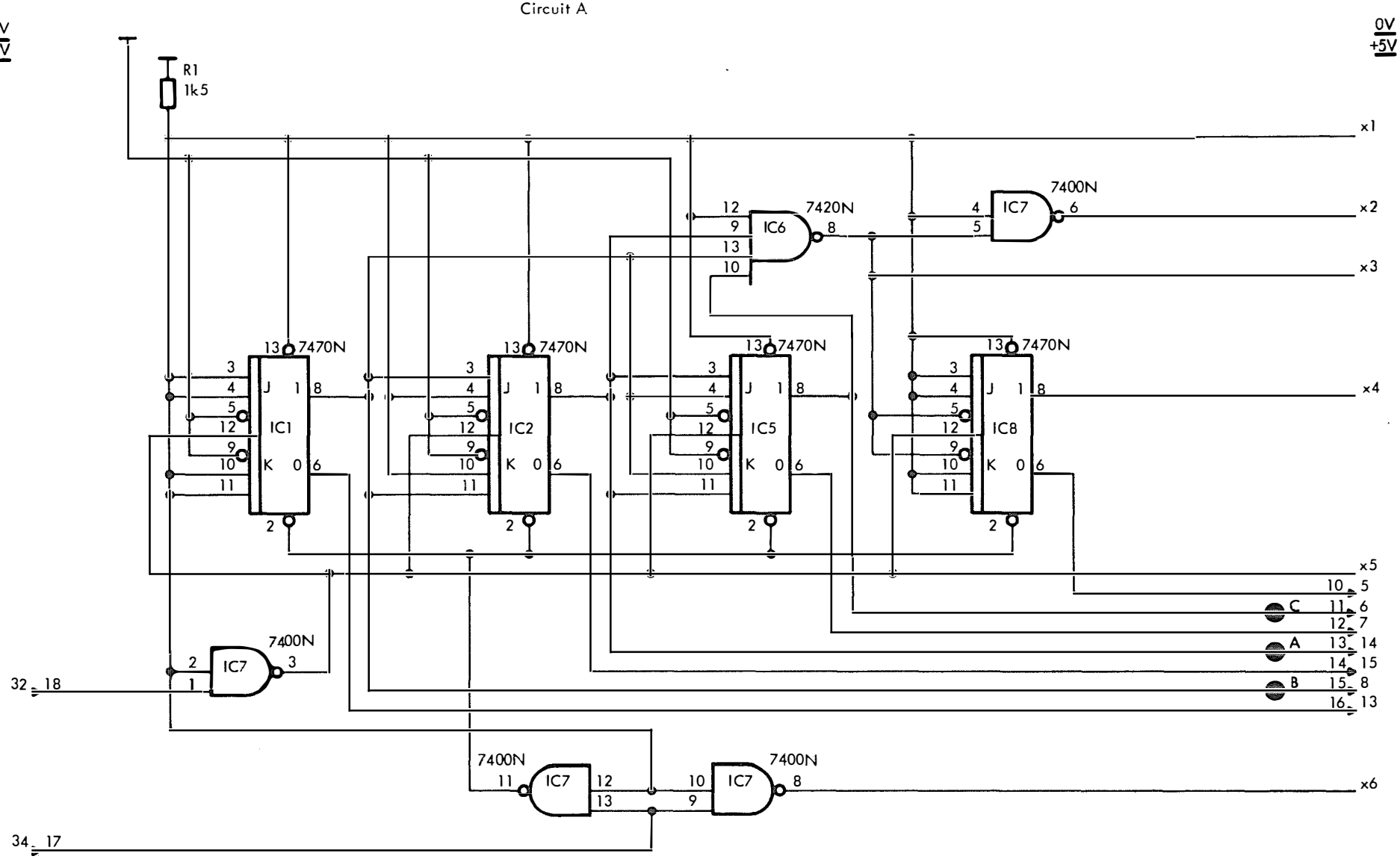
POWER REQUIREMENTS		
+5V	PIN 22	204mA
0V	PIN 21	
POWER DISSIPATION 1070mW		

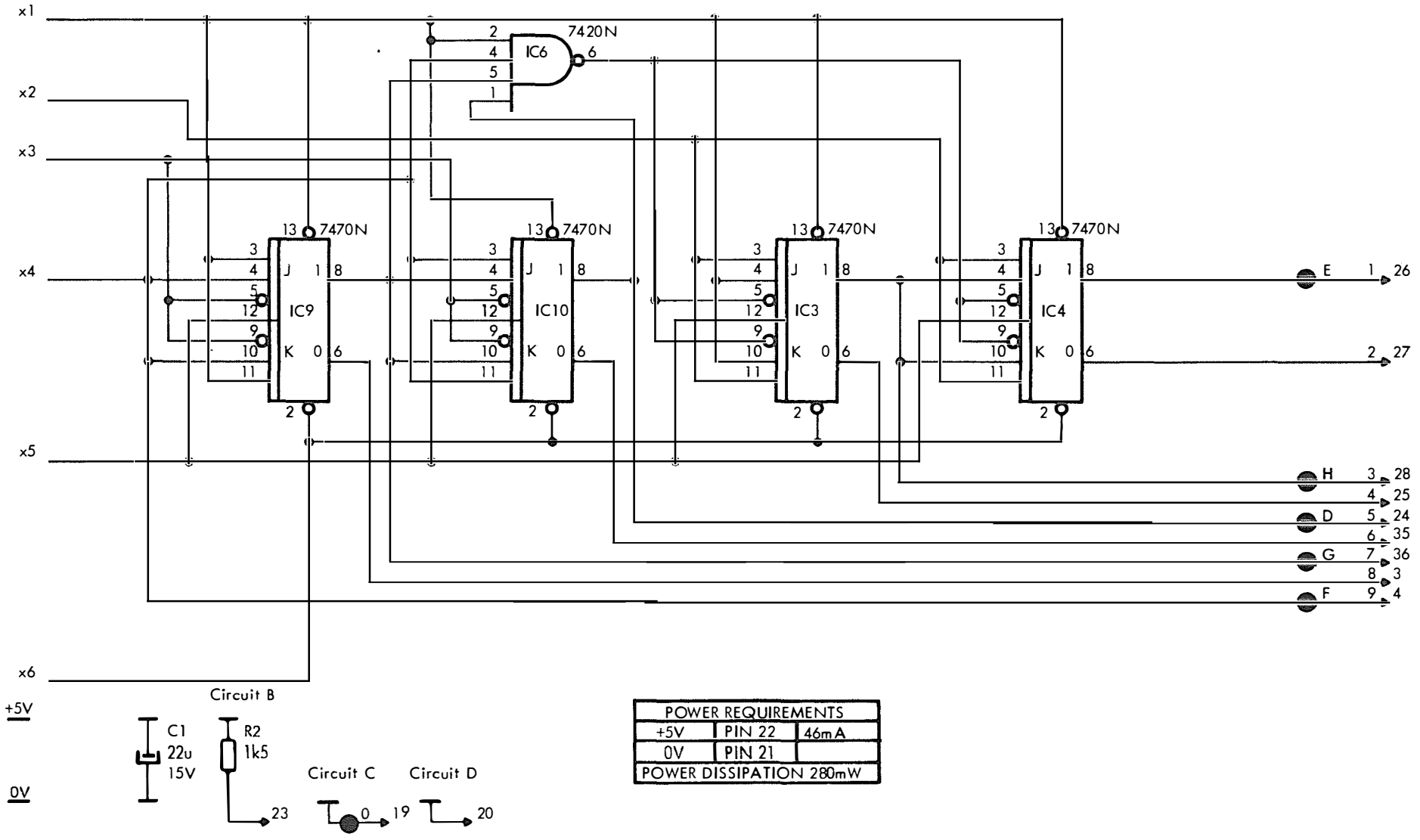


POWER REQUIREMENTS		
+5V	PIN 22	110 mA
0V	PIN 21	
POWER DISSIPATION 575 mW		


Circuit A
7402N
IC1
7400N
IC6
IC3
IC2
IC7
IC4
7430N
IC5
0V
+5V
C1
22u
15V
R1
1K5
Circuit B
Circuit C
C
A
B
D
E
F
128
64
32
16
8
4
2
1
POWER REQUIREMENTS
+5V
0V
82 mA
PIN 22
PIN 21
POWER DISSIPATION 450mW

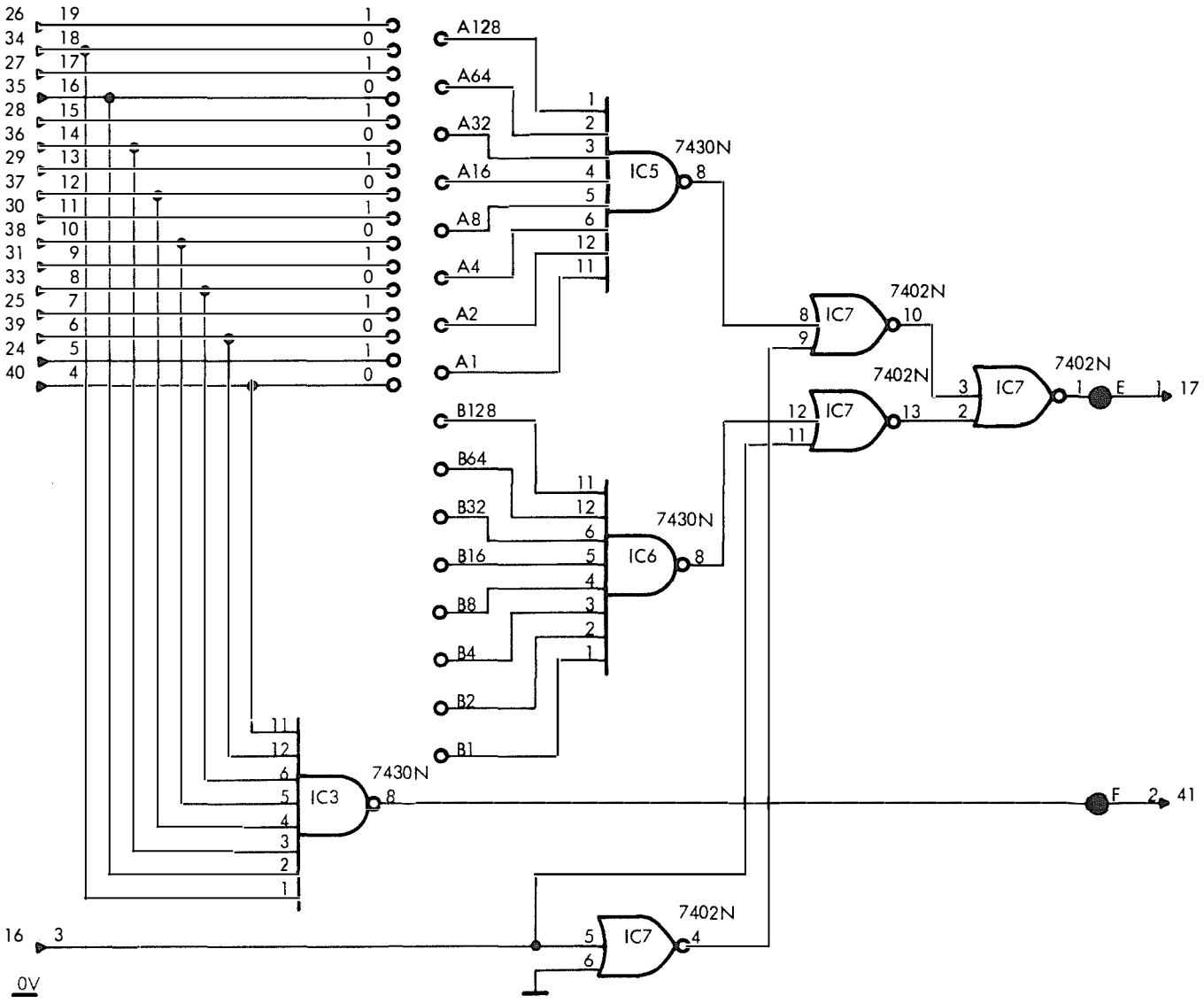
Circuit A


0V
+5V
R1
1k5
7400N
7420N
7470N
IC1
IC2
IC5
IC6
IC7
IC8
J
K
0V
+5V
x1
x2
x3
x4
x5
x6
C
A
B
32
18
34
17

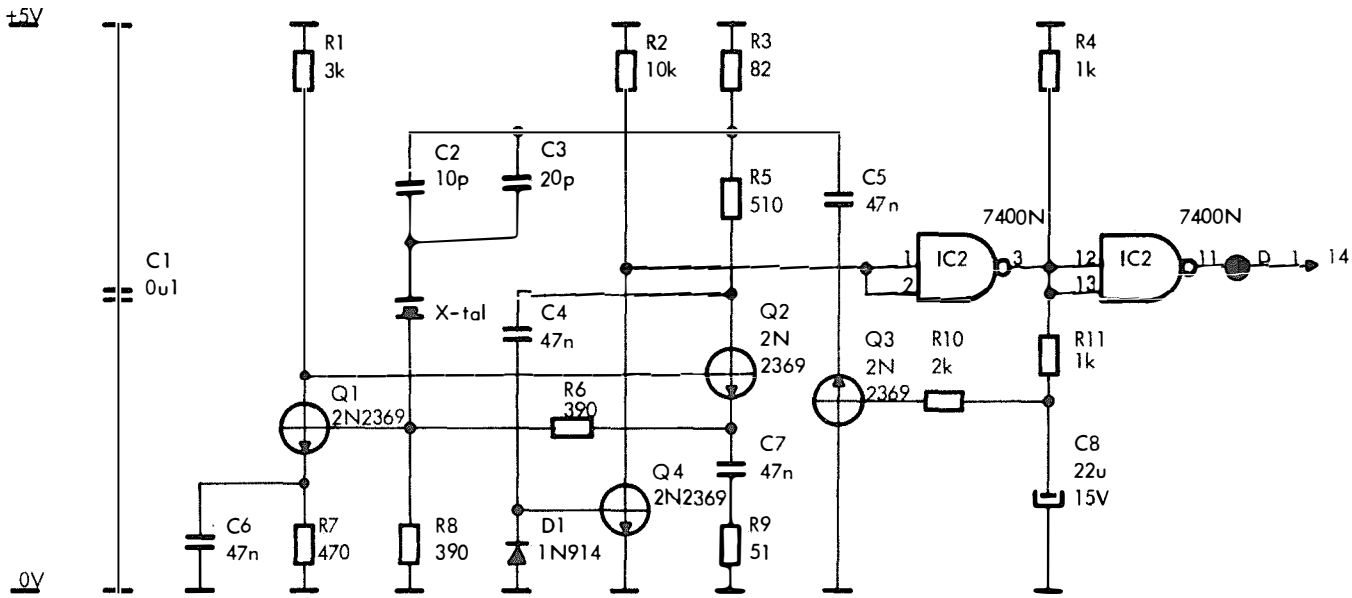


POWER REQUIREMENTS		
+5V	PIN 22	46mA
0V	PIN 21	
POWER DISSIPATION 280mW		

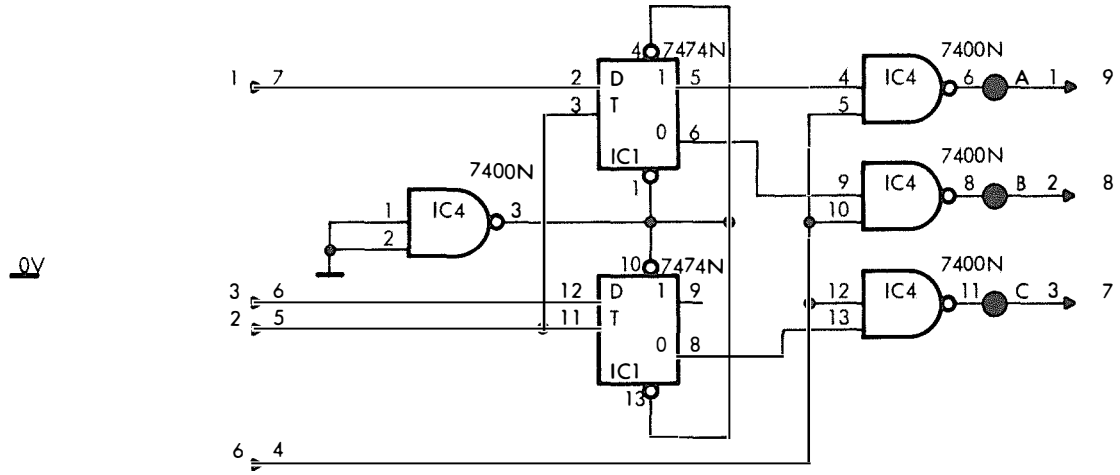
Circuit A
1AJ407



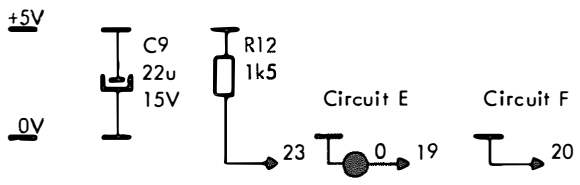
Circuit C
CC406



Circuit B
BG407



Circuit D



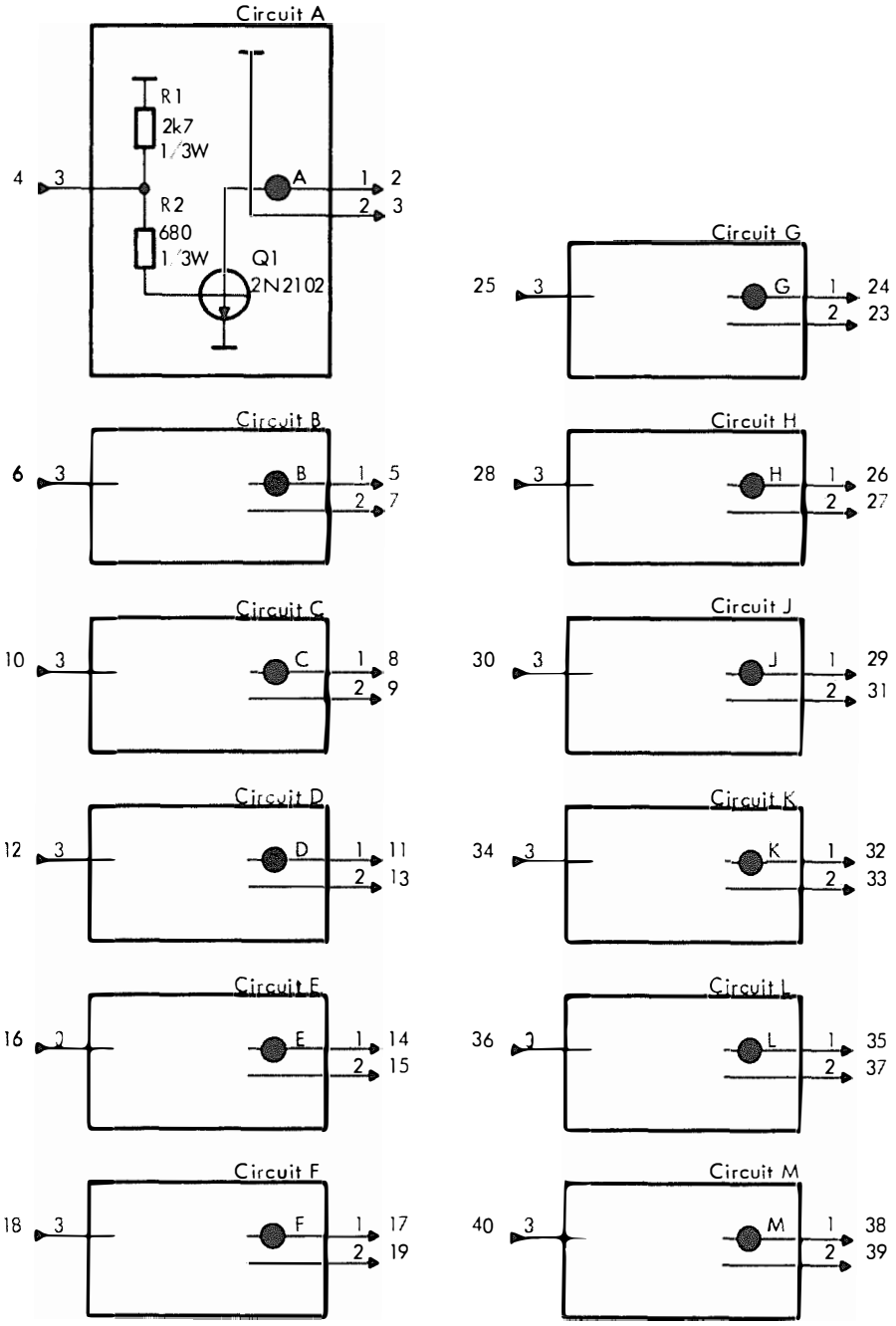
POWER REQUIREMENTS		
+5V	PIN 22	75mA
0V	PIN 21	
POWER DISSIPATION 455mW		

X-tal: Cathodeon
2M- 1β Mc/s - As.
Holder: H6 - 6/U

+24V
+12V

+24V
+12V

0V



+12V

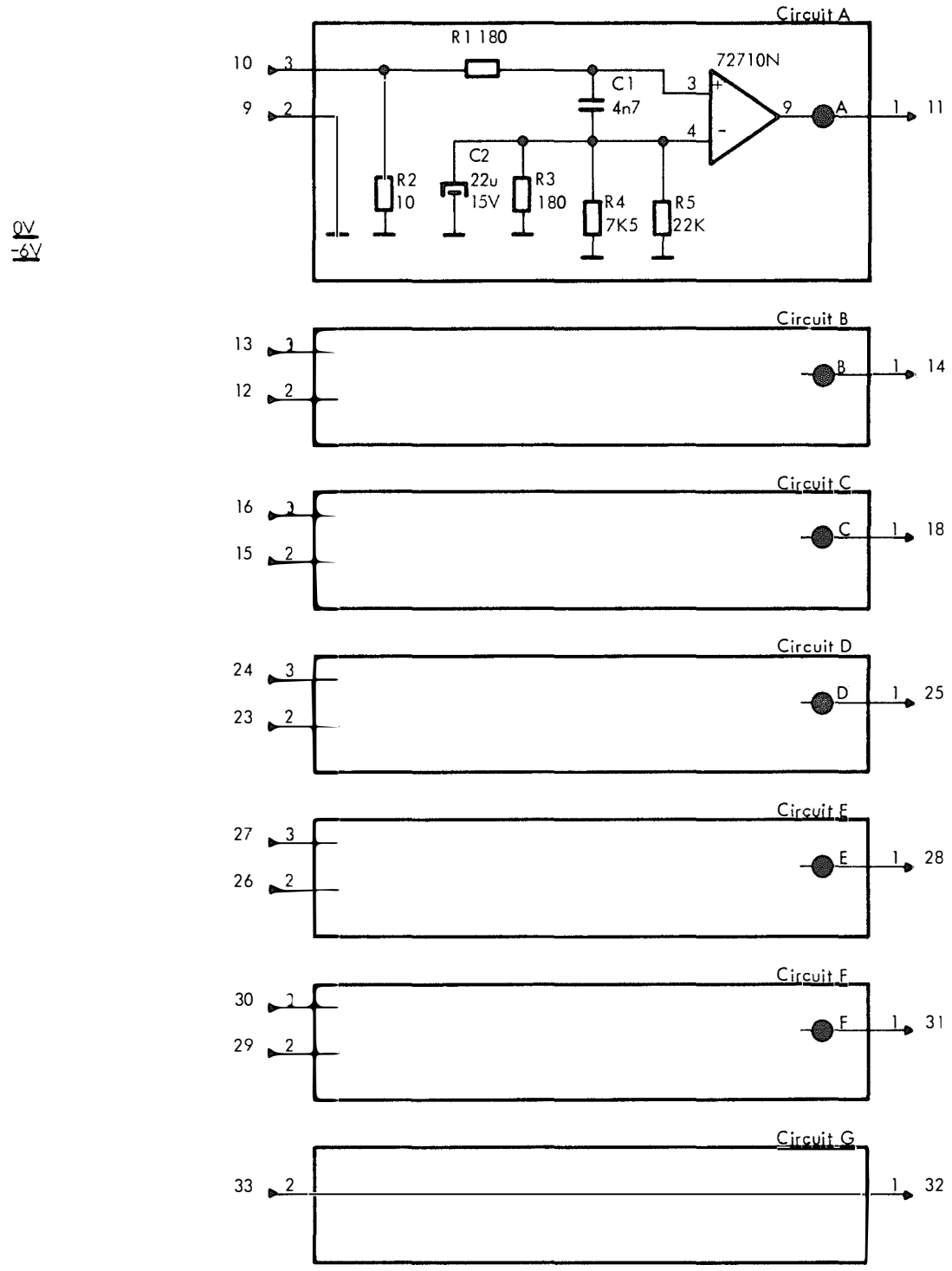
C1
15u
20V

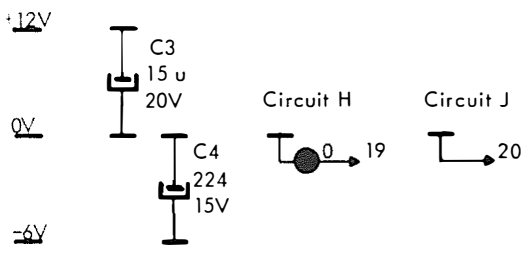
0V

Circuit N

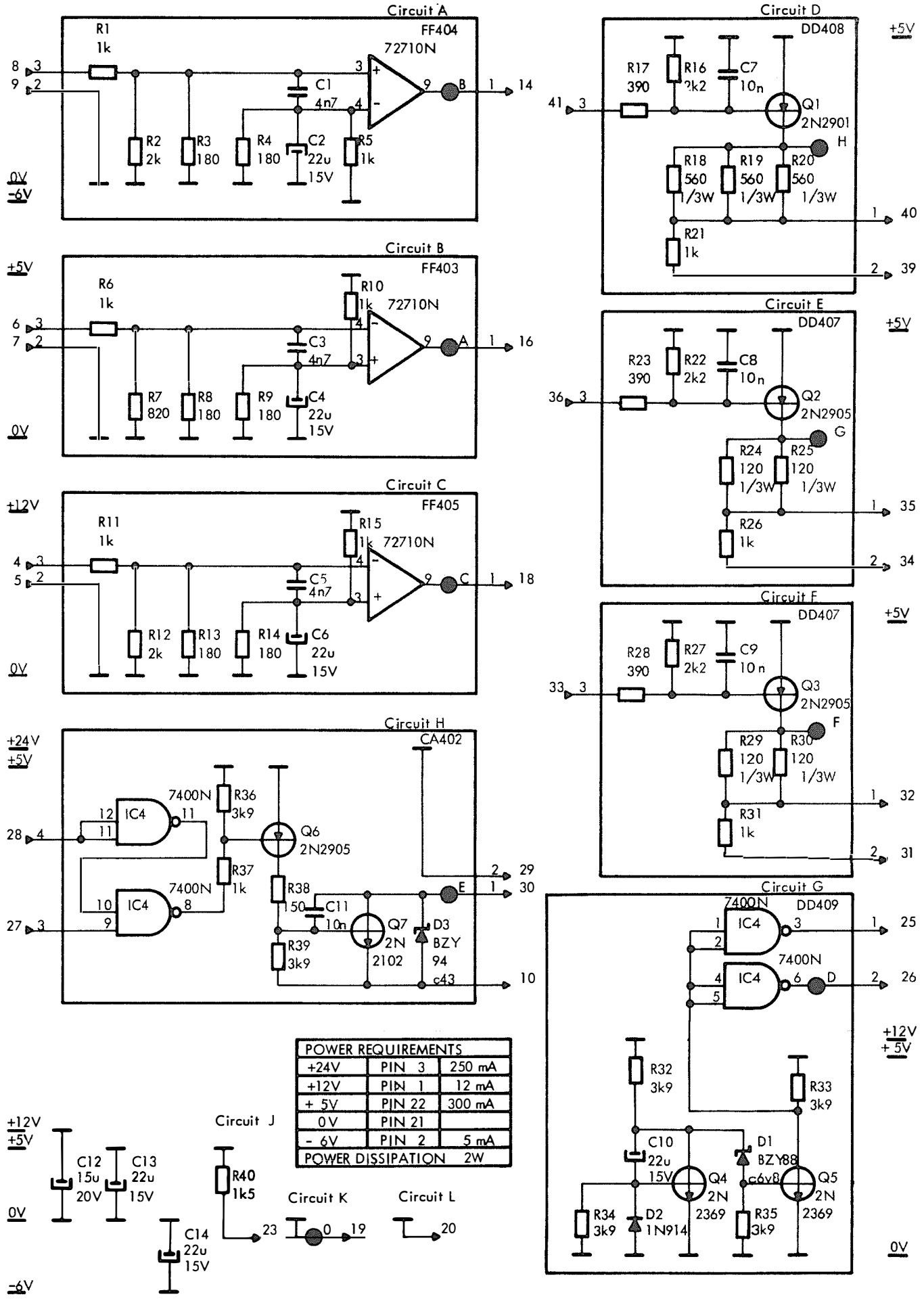
0 19

POWER REQUIREMENTS		
+24V	PIN 41	400mA
+12V	PIN 1	55mA
0V	PIN 21	
POWER DISSIPATION 660mW		





POWER REQUIREMENTS		
+12V	PIN 1	54 mA
0V	PIN 21	
-6V	PIN 2	48 mA
POWER DISSIPATION 1W		



RCLM400 1FF403, 1FF404, 1FF405, 1DD408, 2DD407, 1CA402, 1DD409 RC0907 - 1

V12037 PCBA Circuit Diagram

A/S REGNECENTRALEN	Designed by	Drawn by	Dwg. Check	Design Check		Replaced by Dwg. No
	230469JAK	170969HA	260969AL			

Unit
Dwg. No
V21041

+5V, +12V & -6V REG

PCBA Circuit Diagram

RC0908-1

p1 of 3p

Circuit A

+24V
+12V
0V

R1 7K5 1/3W
C1 10n
R2 200 1/3W
Q5 2N1711
Q4 2N2369
R7 100
R8
R3 560
R4 5K1
R5 3K6
C2 10n
R6 1K5
R16 1K5
R17
R18 1K
R19 5K6
R20 1K
C3 15u 20V
D1 1N 914
D2 1N 914
D3 C7V5
R13 2K2
R14 2K2
R15 1K6
Q1 2N2369
Q2 2N2369
Q3 2N 1711
D4 C5V6
R9 10 1/3W
R10 10 1/3W
R11 10 1/3W
R12 10 1/3W
D5 1N 4999
D6 1N 4999
D7 1N 4999
D8 1N 4999

4
6
10
14

A/S REGNECENTRALEN

Designed	Drawn	Design Check	Design Check	Replaces Dwg No
230469JAK	170969HA	260969AL		

Unit

Dwg No V21042

PCBA Circuit Diagram

+5V, +12V & -6V REG

RC0908-1

p2 of 3p

Circuit A

+12V

+5V

0V

R21 620

R22 5K6

R23 5K1

R24 3K

R5 2K4

C4 10n

Q6 2N 1711

Q8 2N3055

2N 2369 Q7

R26 100

R27

R28 10 1/3W

R29 10 1/3W

R30 10 1/3W

R31

R32 82

C5 10n

Q9 2N 2369

D9 1N 914

D10 1N 914

D11 C7V5

R33 2K2

R34 2K2

2N2369 Q10

2N2369 Q11

R35 1K5

R36 1K

D12 C5V1

R37 3K

R38 1K

C6 22u 15V

AGF 2272

A/S REGNECENTRALEN	Designed by	Drawn by	Dwg Office Check	Design Check	Replaces Dwg No.	Due to ECO	Replaced by Dwg No.
	230469JAK	170969HA	260969AL				

Unit

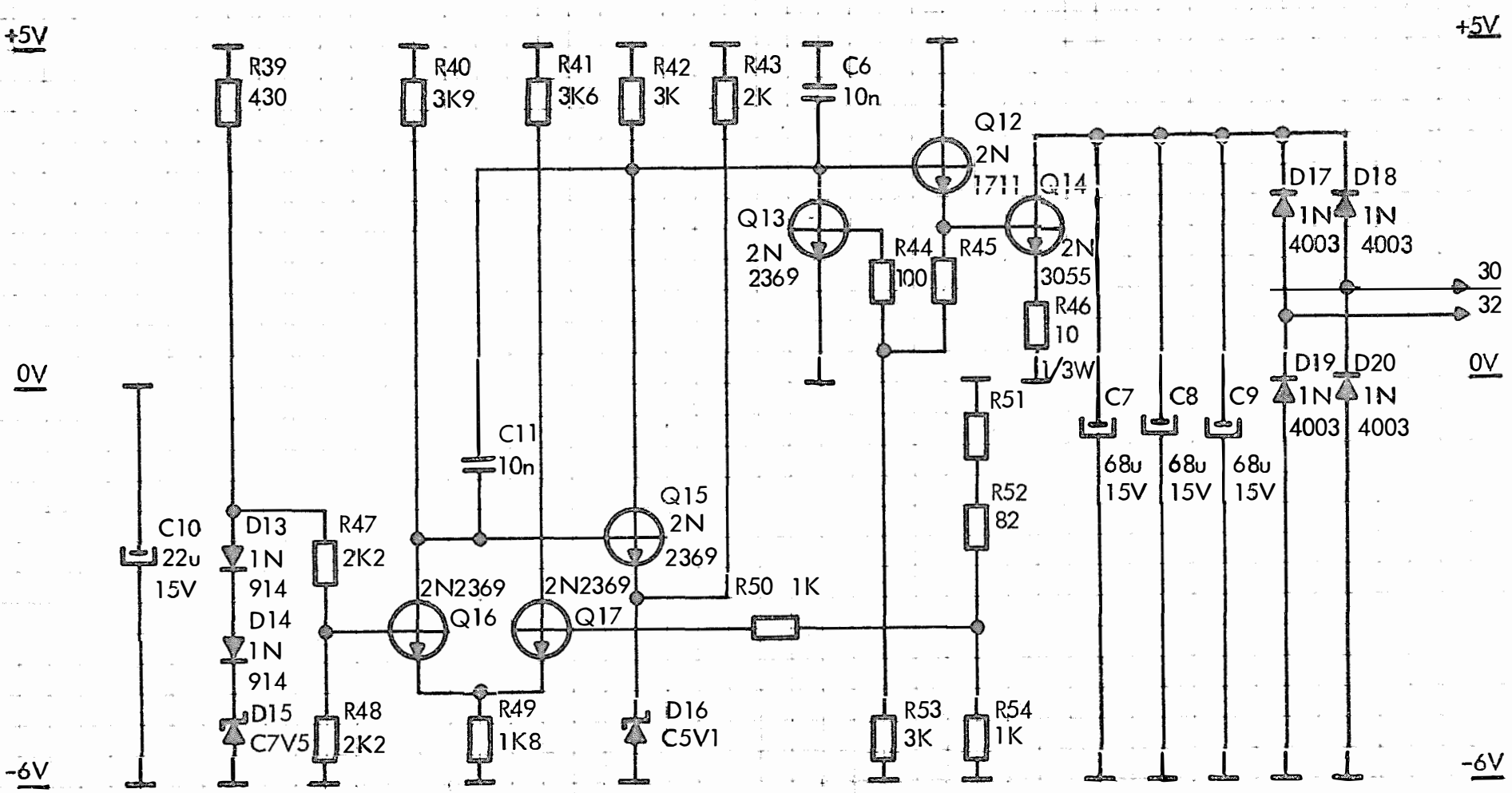
Dwg No. V21043

+5V, +12V & -6V REG

PCBA Circuit Diagram

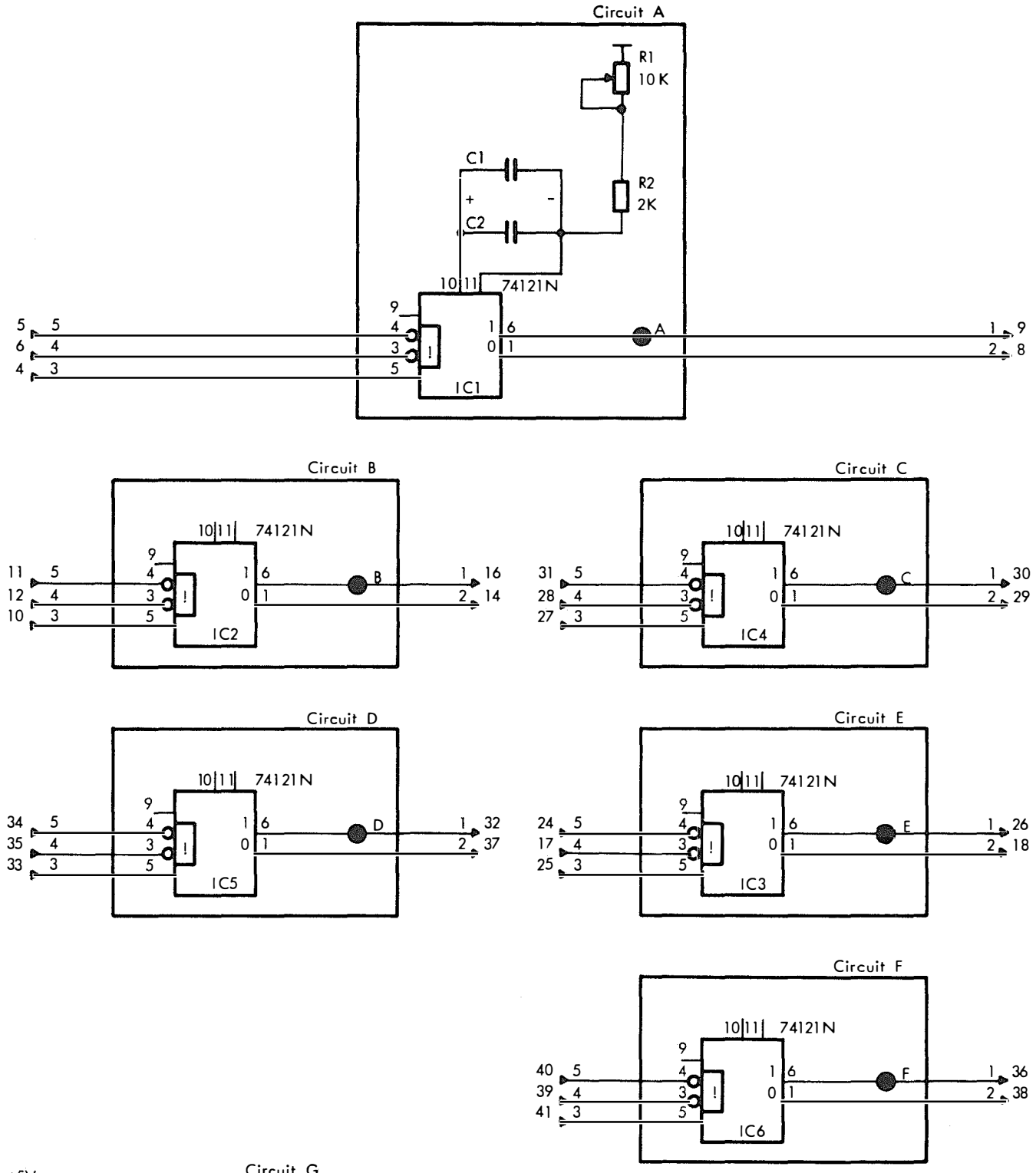
RC0908-1

p3 of 3p



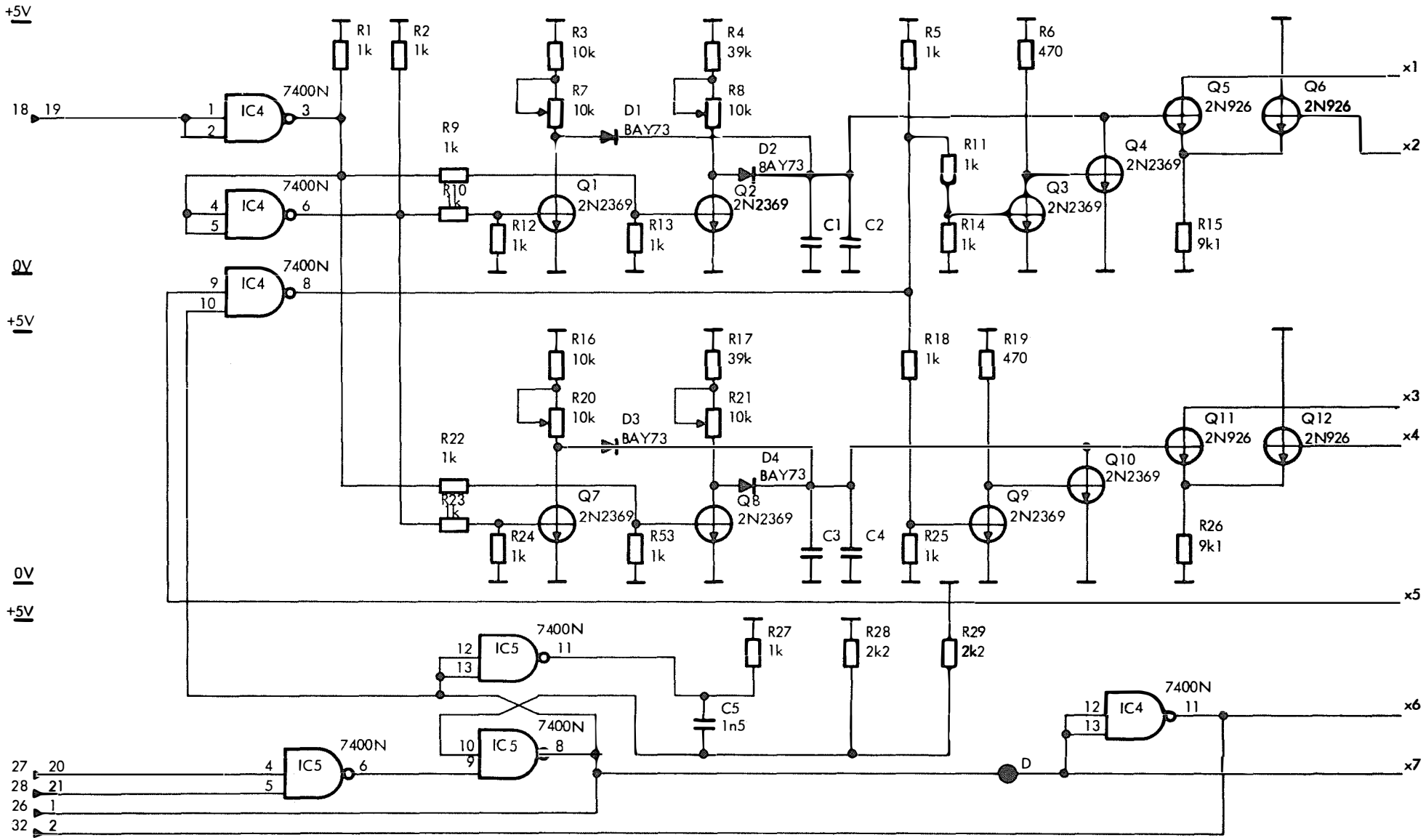
+24V	PIN 3
+12V	PIN 1
+5V	PIN 22
0V	PIN 21
-6V	PIN 2

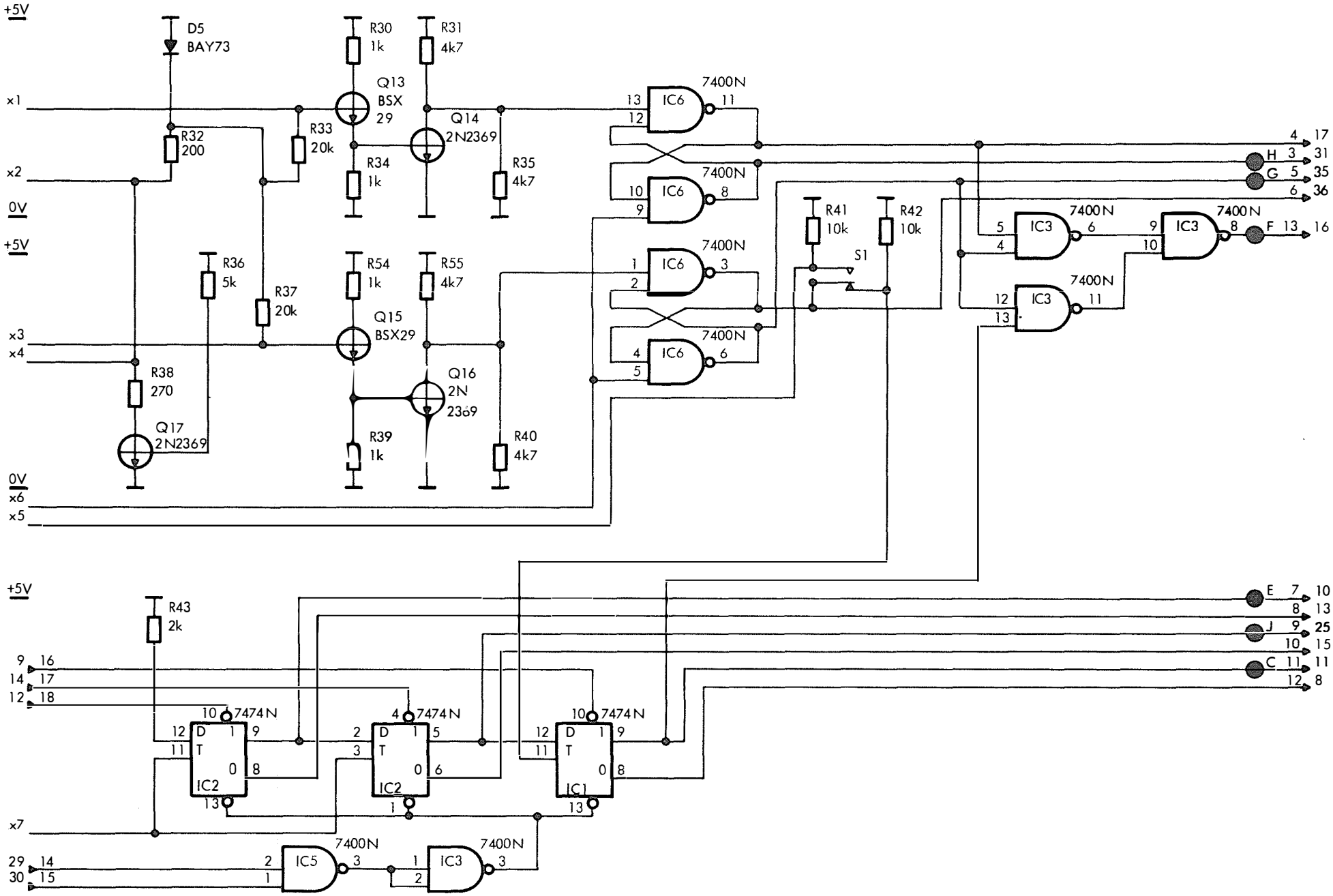
Zenerdiodes BZY88



POWER REQUIREMENTS		
+5 V	PIN 22	152 mA
0 V	PIN 21	
POWER DISSIPATION 800 mV		

Circuit A

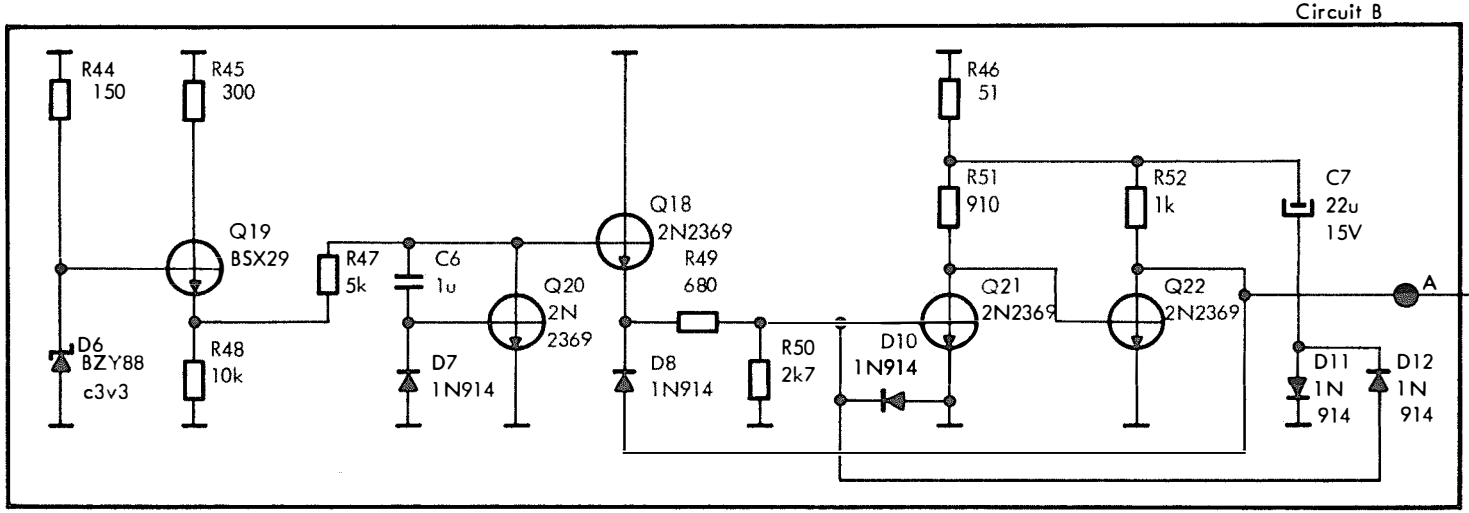

+5V
0V
+5V
0V
+5V
18
19
IC4
7400N
R1 1k
R2 1k
R3 10k
R4 39k
R5 1k
R6 470
R7 10k
R8 10k
D1 BAY73
D2 BAY73
R9 1k
R10 1k
Q1 2N2369
Q2 2N2369
R11 1k
Q3 2N2369
Q4 2N2369
Q5 2N926
Q6 2N926
R12 1k
R13 1k
R14 1k
R15 9k1
C1
C2
x1
x2
R16 10k
R17 39k
R18 1k
R19 470
R20 10k
R21 10k
D3 BAY73
D4 BAY73
R22 1k
R23 1k
Q7 2N2369
Q8 2N2369
Q9 2N2369
Q10 2N2369
Q11 2N926
Q12 2N926
R24 1k
R53 1k
R25 1k
R26 9k1
C3
C4
x3
x4
x5
IC5
R27 1k
R28 2k2
R29 2k2
C5 1n5
x6
x7
D
27
28
26
32
20
21
1
2


+5V
D5
BAY73
R30
1k
R31
4k7
Q13
BSX
29
Q14
2N2369
R32
200
R33
20k
R34
1k
R35
4k7
×1
×2
0V
+5V
R36
5k
R37
20k
R54
1k
R55
4k7
Q15
BSX29
Q16
2N
2369
R38
270
Q17
2N2369
R39
1k
R40
4k7
×3
×4
0V
×6
×5
7400N
IC6
R41
10k
R42
10k
S1
IC3
H
G
F
+5V
R43
2k
9
14
12
16
17
18
7474N
IC2
IC1
×7
29
30
IC5
E
J
C

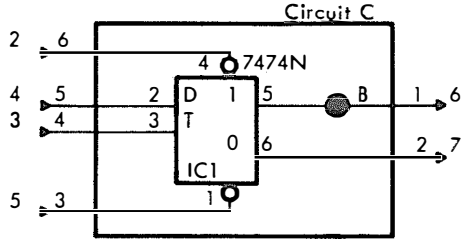
+5V

0V

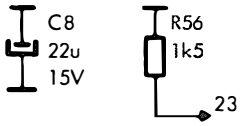
Circuit B



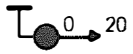
Circuit C



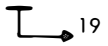
Circuit D



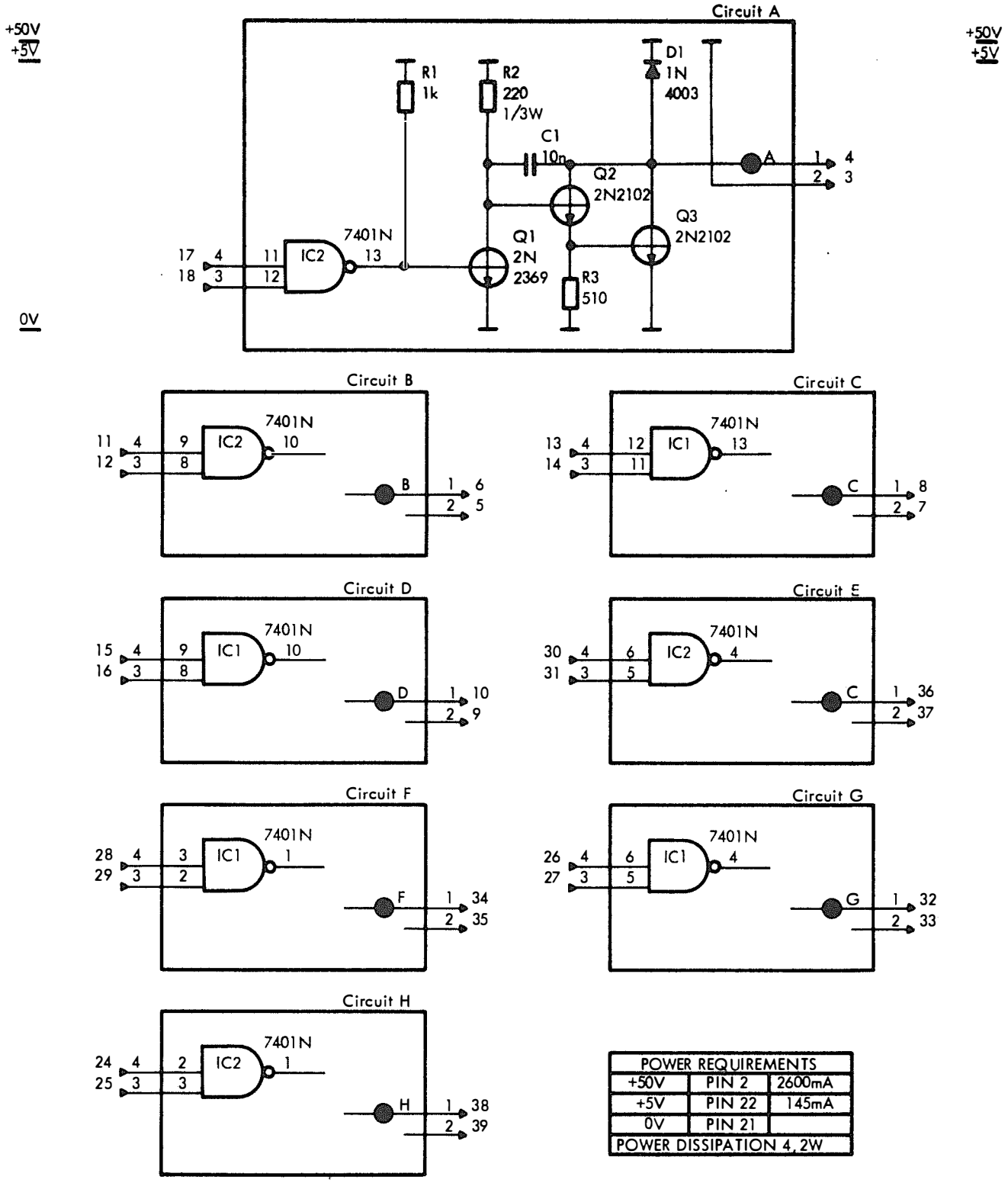
Circuit E

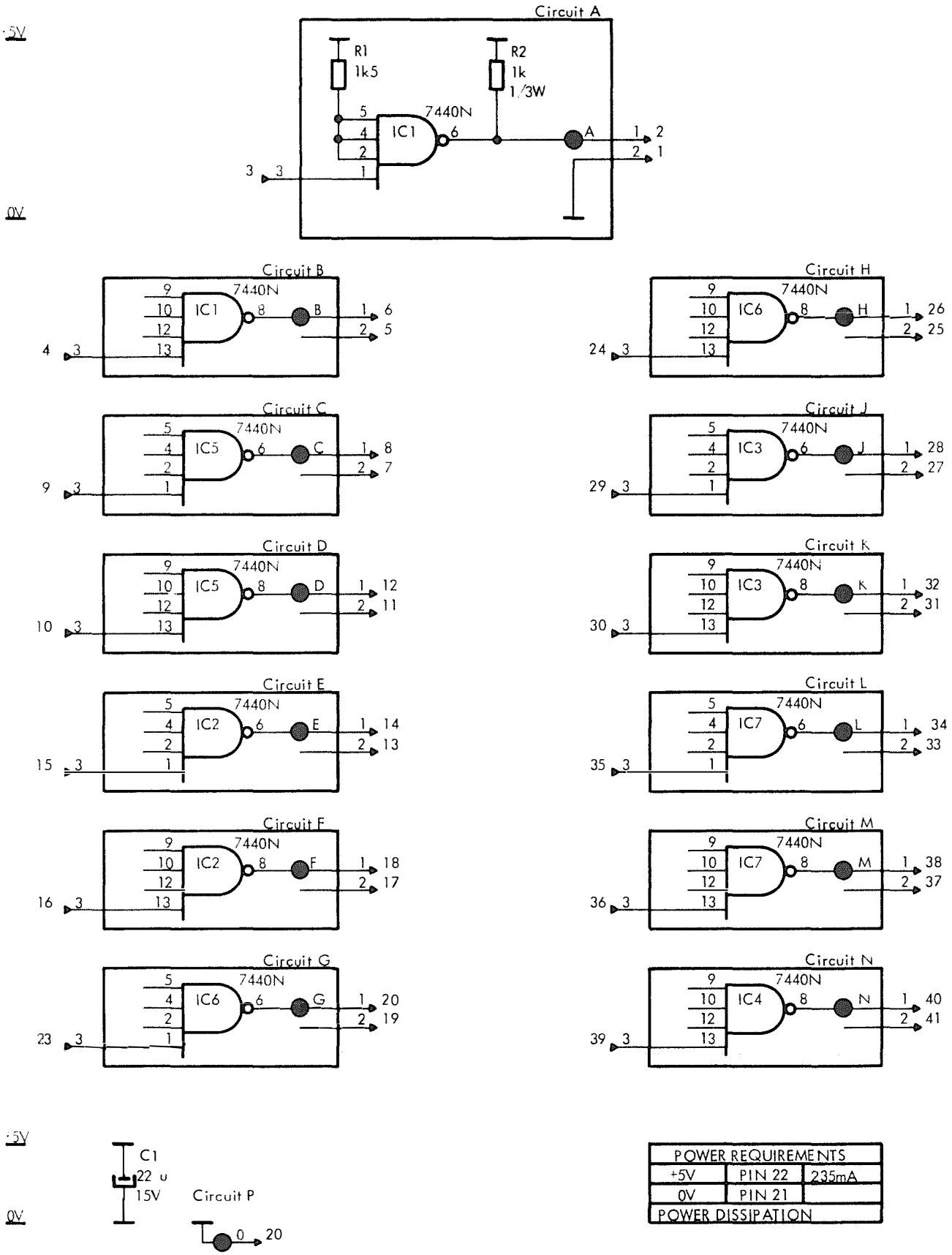


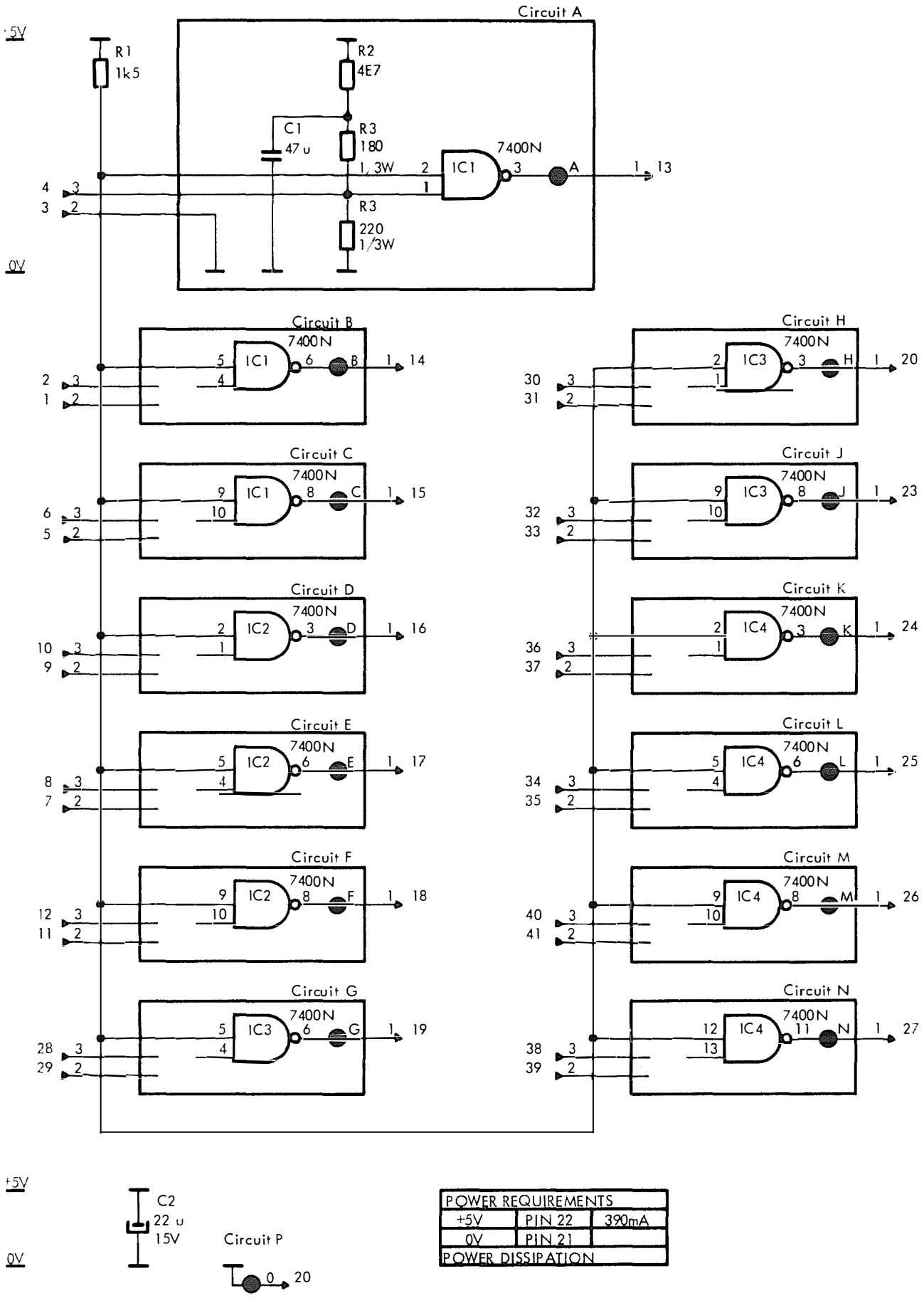
Circuit F



POWER REQUIREMENTS		
+5V	PIN 22	210mA
0V	PIN 21	
POWER DISSIPATION 1100mW		


Circuit A
+50V
+5V
0V
R1
1k
R2
220
1/3W
C1
10n
D1
1N
4003
Q2
2N2102
Q3
2N2102
Q1
2N
2369
R3
510
7401N
IC2
A
Circuit B
B
Circuit C
C
IC1
Circuit D
D
Circuit E
IC2
Circuit F
F
Circuit G
G
Circuit H
H
POWER REQUIREMENTS
+50V PIN 2 2600mA
+5V PIN 22 145mA
0V PIN 21
POWER DISSIPATION 4,2W
C2
22u
15V
C3
1u
63V
C4
1u
63V
C5
1u
63V
C6
1u
63V
Circuit J
R4
1k5
Circuit K
Circuit L


+5V
0V
Circuit A
R1
1k5
R2
1k
1/3W
IC1
7440N
A
Circuit B
B
Circuit C
C
Circuit D
D
Circuit E
E
Circuit F
F
Circuit G
G
Circuit H
H
Circuit J
J
Circuit K
K
Circuit L
L
Circuit M
M
Circuit N
N
C1
22 u
15V
Circuit P
POWER REQUIREMENTS
+5V PIN 22 235mA
0V PIN 21
POWER DISSIPATION


Circuit A
+5V
R1
1k5
R2
4E7
C1
47 u
R3
180
1/3W
7400N
IC1
A
R3
220
1/3W
0V
Circuit B
Circuit C
Circuit D
Circuit E
Circuit F
Circuit G
Circuit H
Circuit J
Circuit K
Circuit L
Circuit M
Circuit N
+5V
C2
22 u
15V
0V
Circuit P
POWER REQUIREMENTS
+5V PIN 22 390mA
0V PIN 21
POWER DISSIPATION

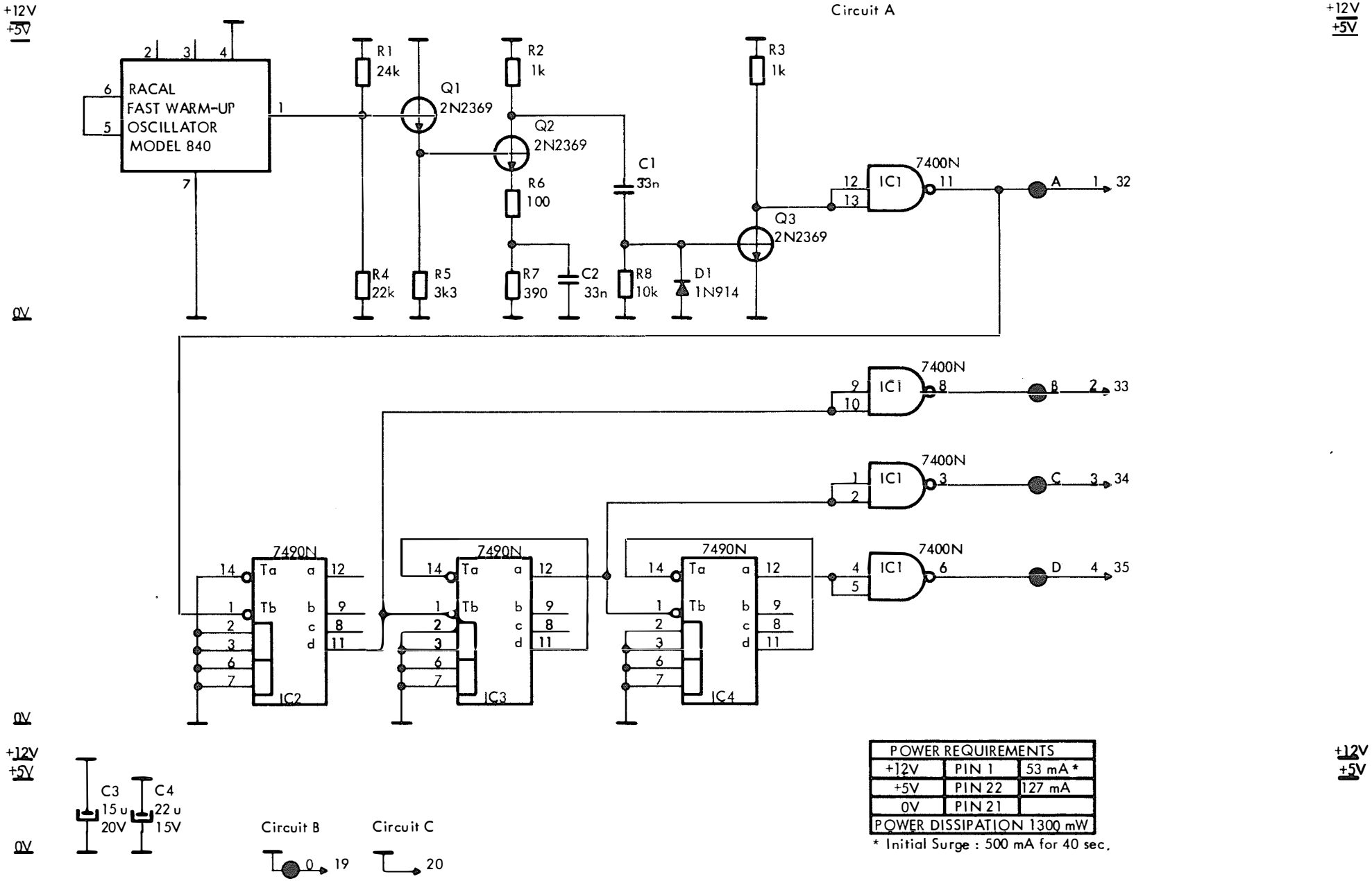
RCLM 400

V11894

PCB A Circuit Diagram

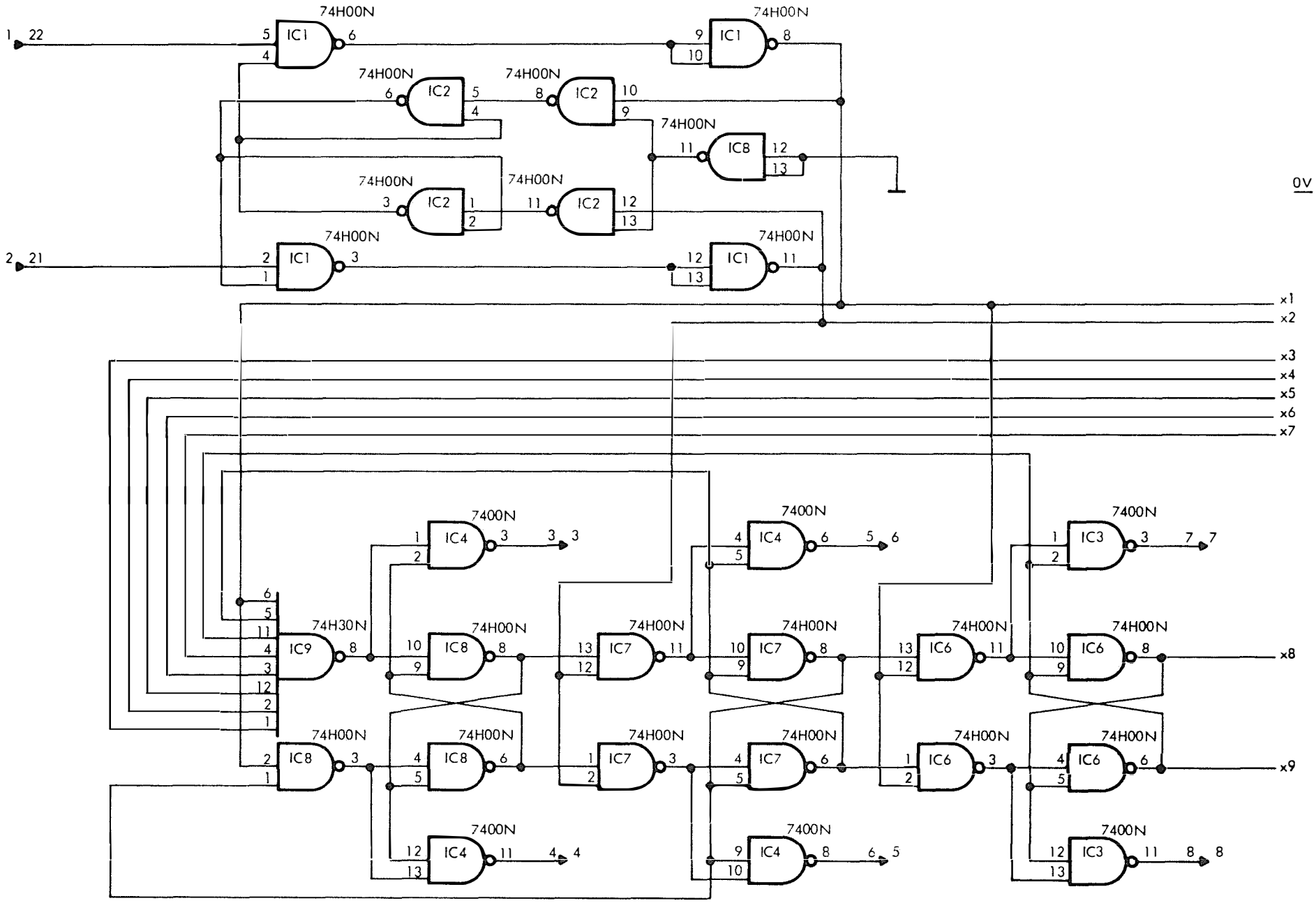
1CC407

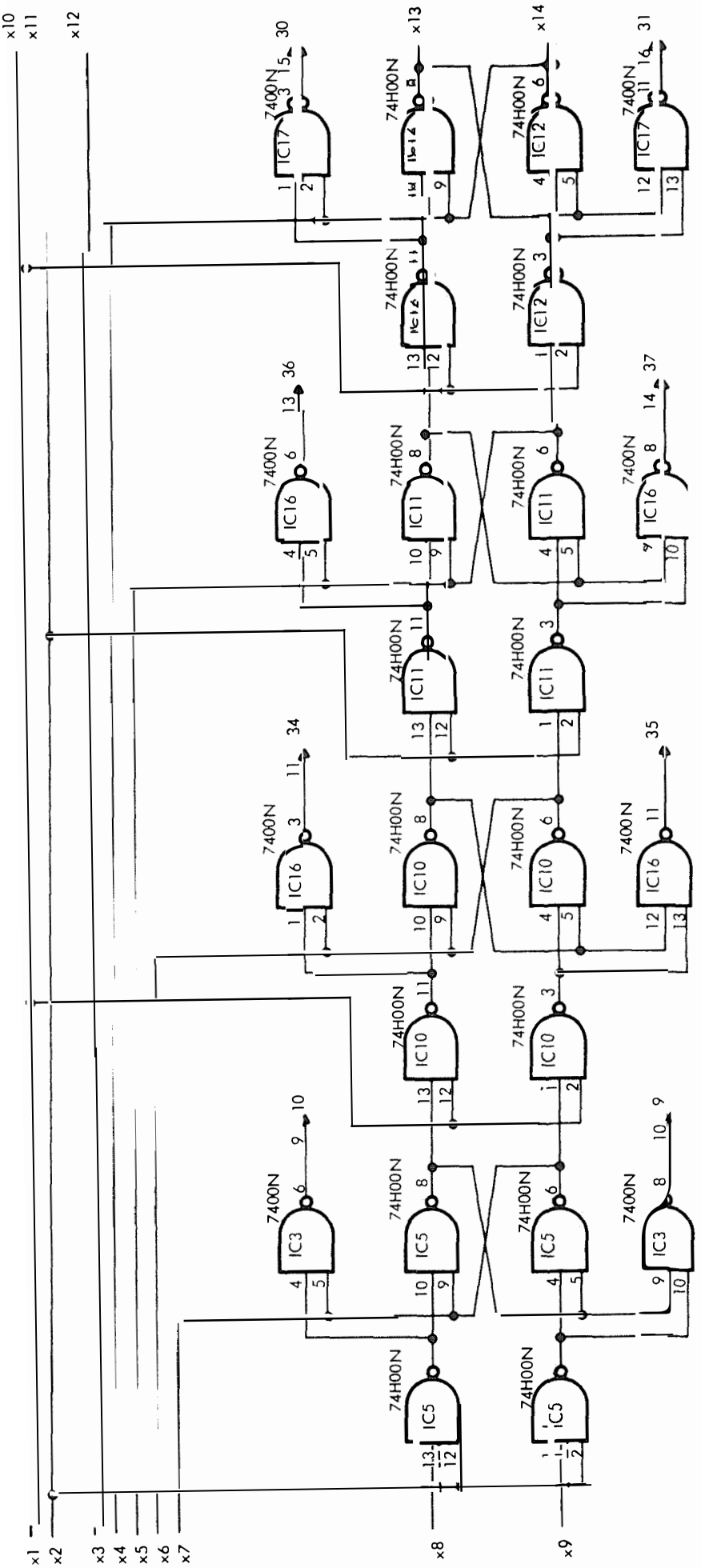
RC0928-1



POWER REQUIREMENTS		
+12V	PIN 1	53 mA *
+5V	PIN 22	127 mA
0V	PIN 21	
POWER DISSIPATION 1300 mW		

* Initial Surge : 500 mA for 40 sec.


74H00N
IC1
IC2
IC8
0V
0V
1
22
2
21
x1
x2
x3
x4
x5
x6
x7
x8
x9
7400N
IC4
74H30N
IC9
IC7
IC6
IC3

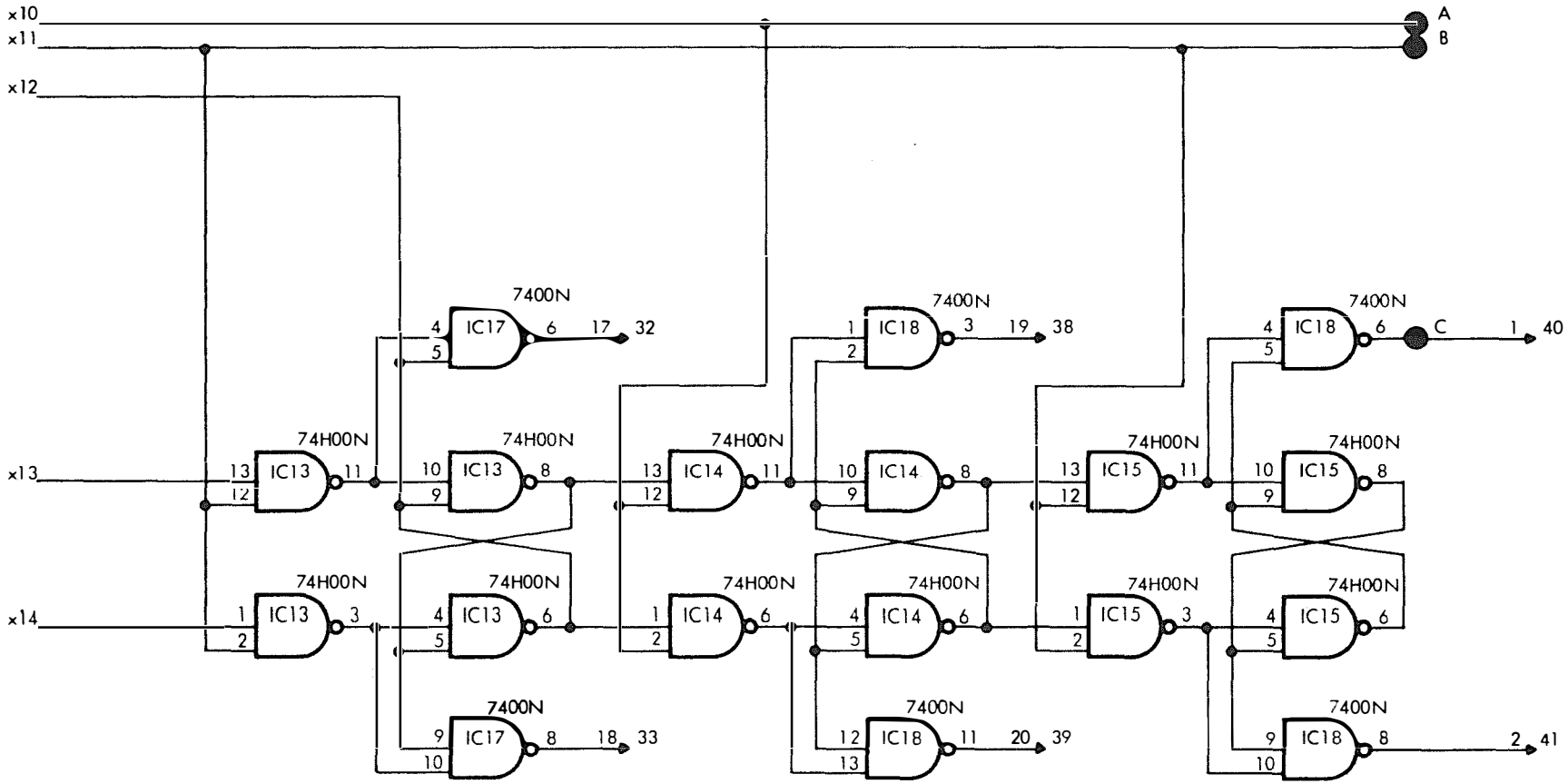

x10
x11
x12
x13
x14
7400N
74H00N
IC17
IC16
IC12
IC11
IC10
IC5
IC3
30
31
36
37
34
35
10
9
x1
x2
x3
x4
x5
x6
x7
x8
x9

+5V

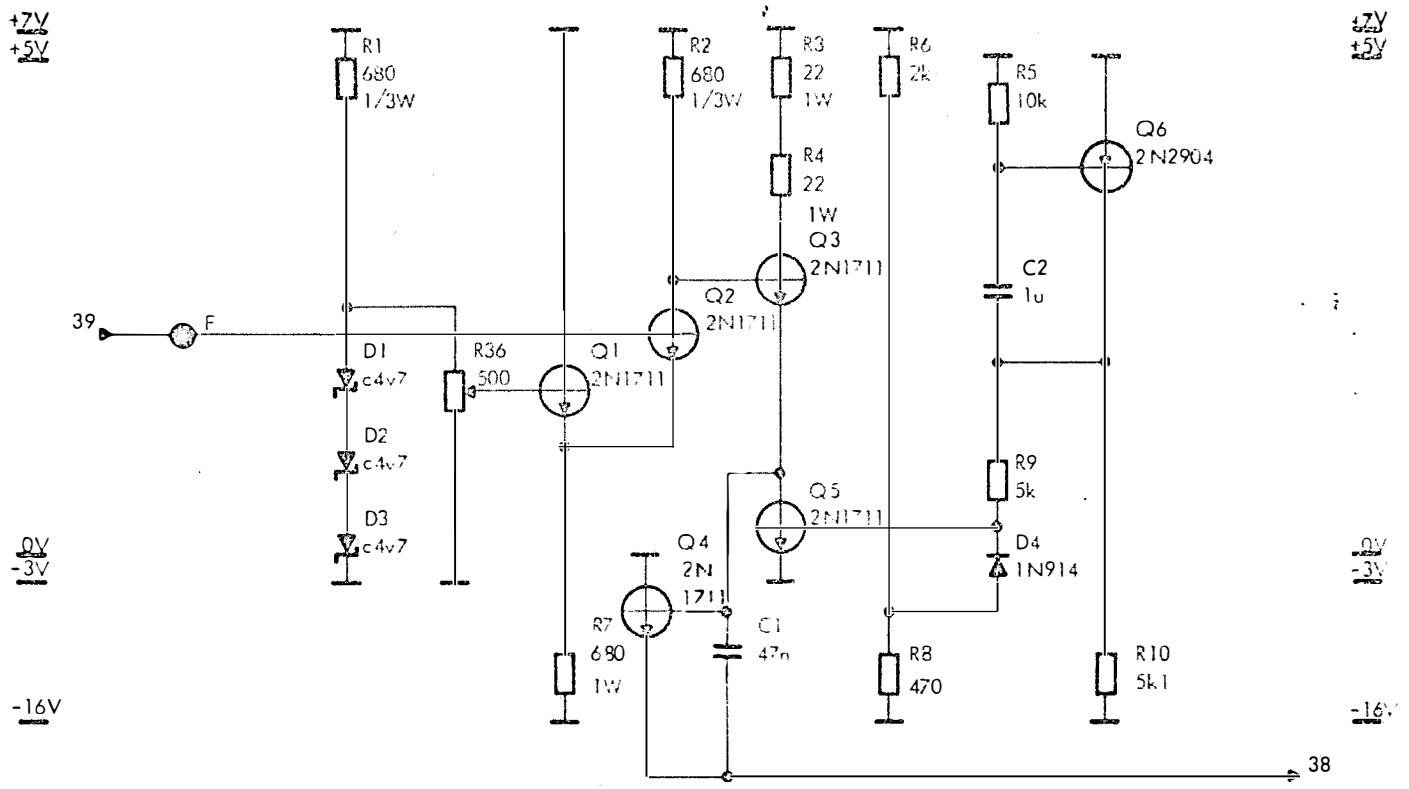
C1
22u
15V

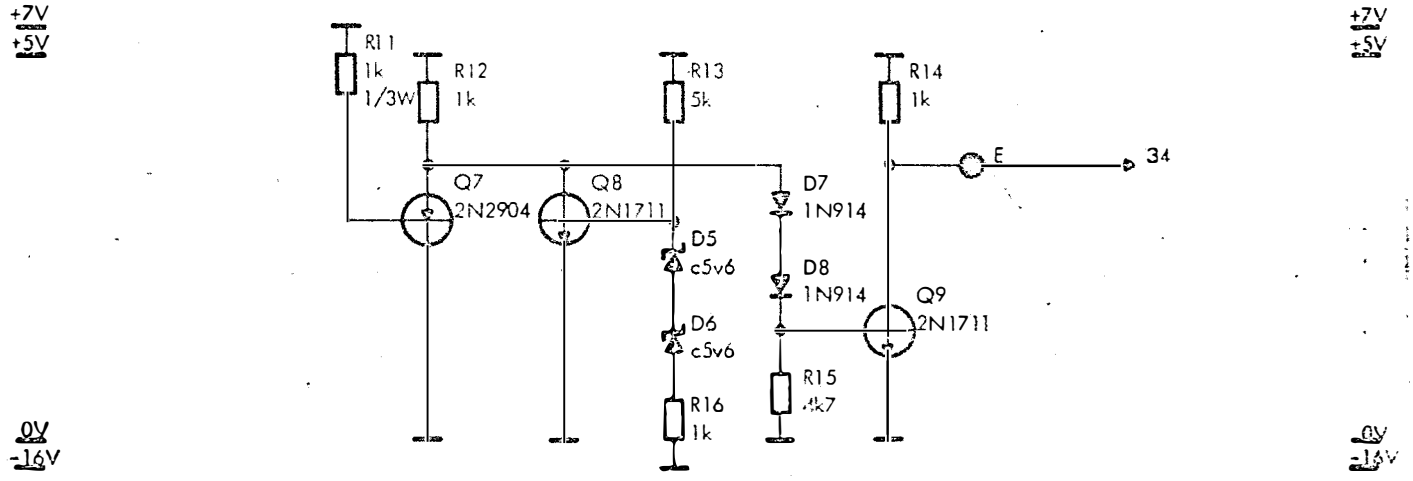
0V

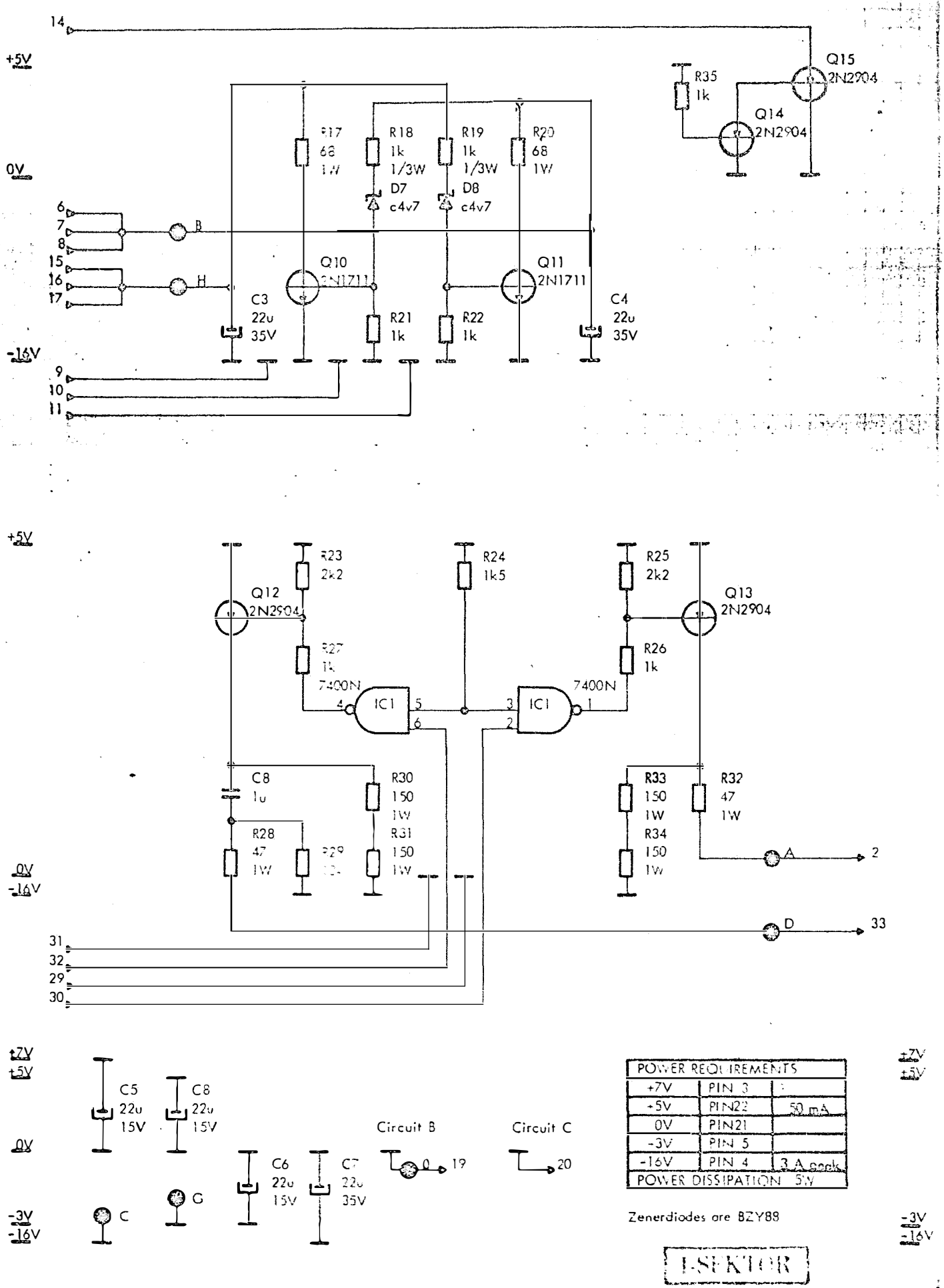
POWER REQUIREMENTS		
+5 V	PIN 22	160 mA
0 V	PIN 21	
POWER DISSIPATION 850 mW		



Circuit A


+7V
+5V
0V
-3V
-16V
R1
680
1/3W
R2
680
1/3W
R3
22
1W
R4
22
1W
R6
2k
R5
10k
Q6
2N2904
Q3
2N1711
C2
1u
Q2
2N1711
39
F
D1
c4v7
D2
c4v7
D3
c4v7
R36
500
Q1
2N1711
R9
5k
Q5
2N1711
Q4
2N
1711
D4
1N914
R7
680
1W
C1
47n
R8
470
R10
5k1
38

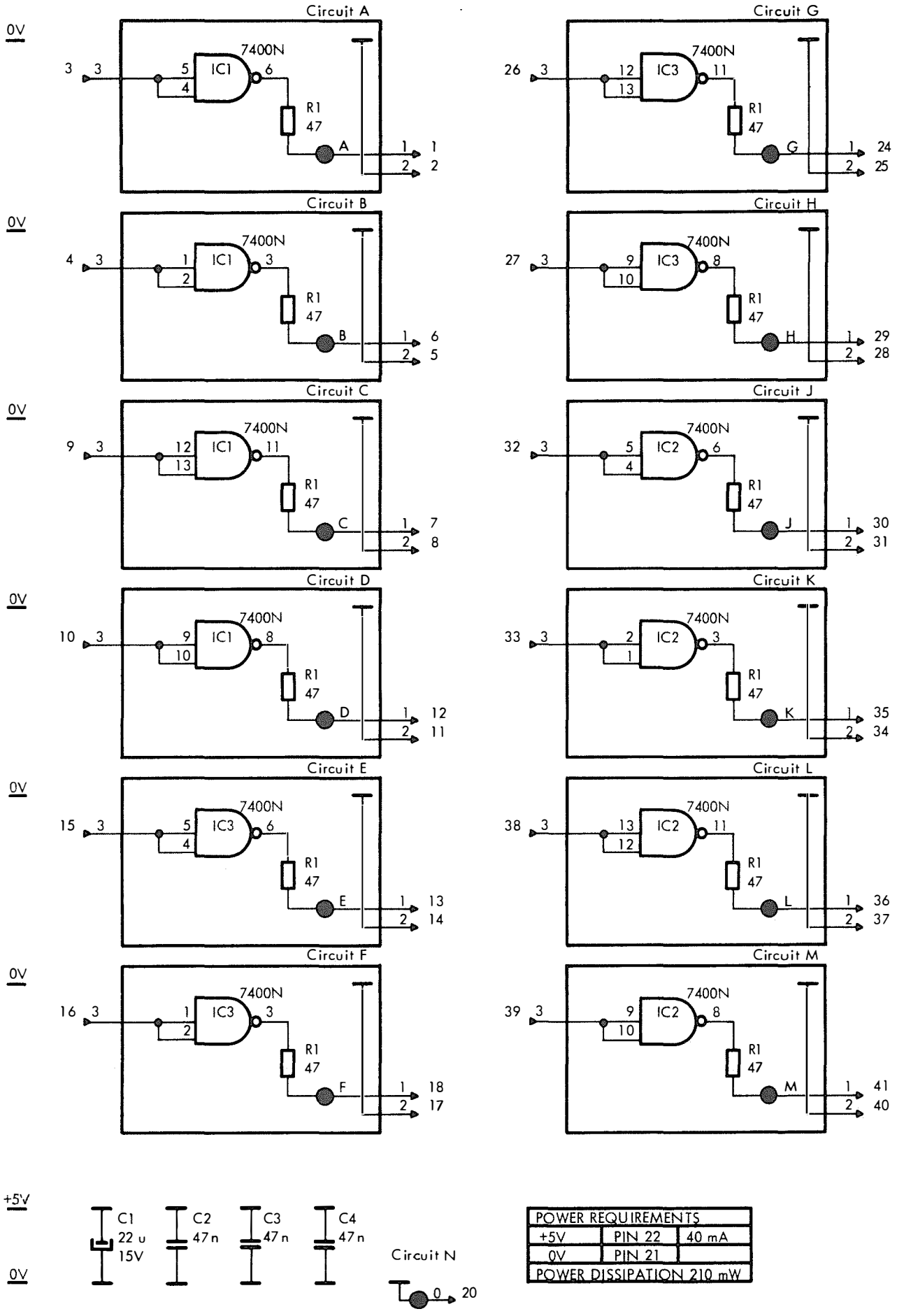

+7V
+5V
0V
-16V
R11
1k
1/3W
R12
1k
R13
5k
R14
1k
E
34
Q7
2N2904
Q8
2N1711
D7
1N914
D5
c5v6
D8
1N914
Q9
2N1711
D6
c5v6
R15
4k7
R16
1k

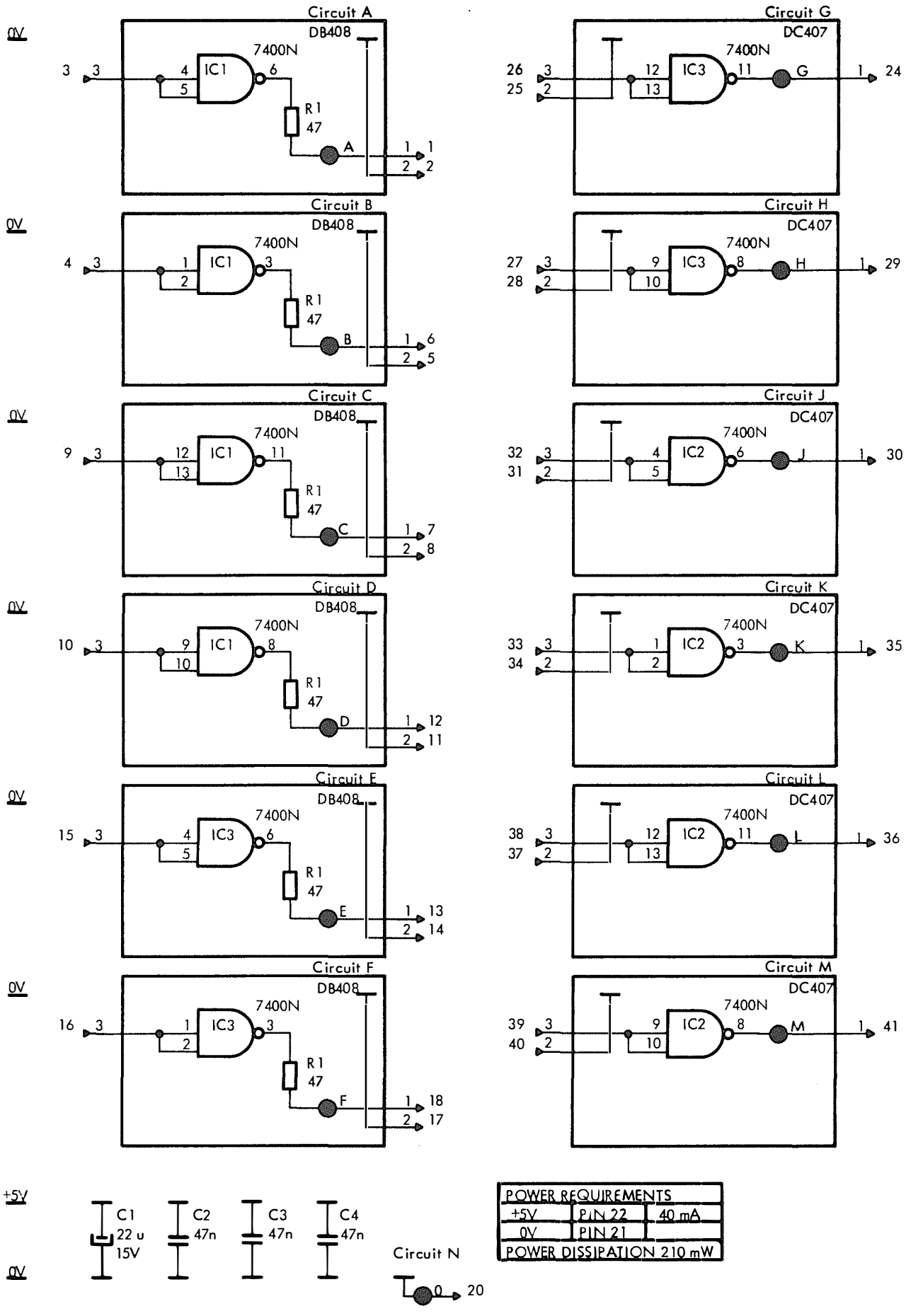


FACIT PUNCH PF1500 - POWER SUPPLY UNIT, CURRENT SOURCE AMPLIFIER, POWER SUPERVISION, SCR - BOOSTER, AND GATE - CURRENT - AMPLIFIERS.

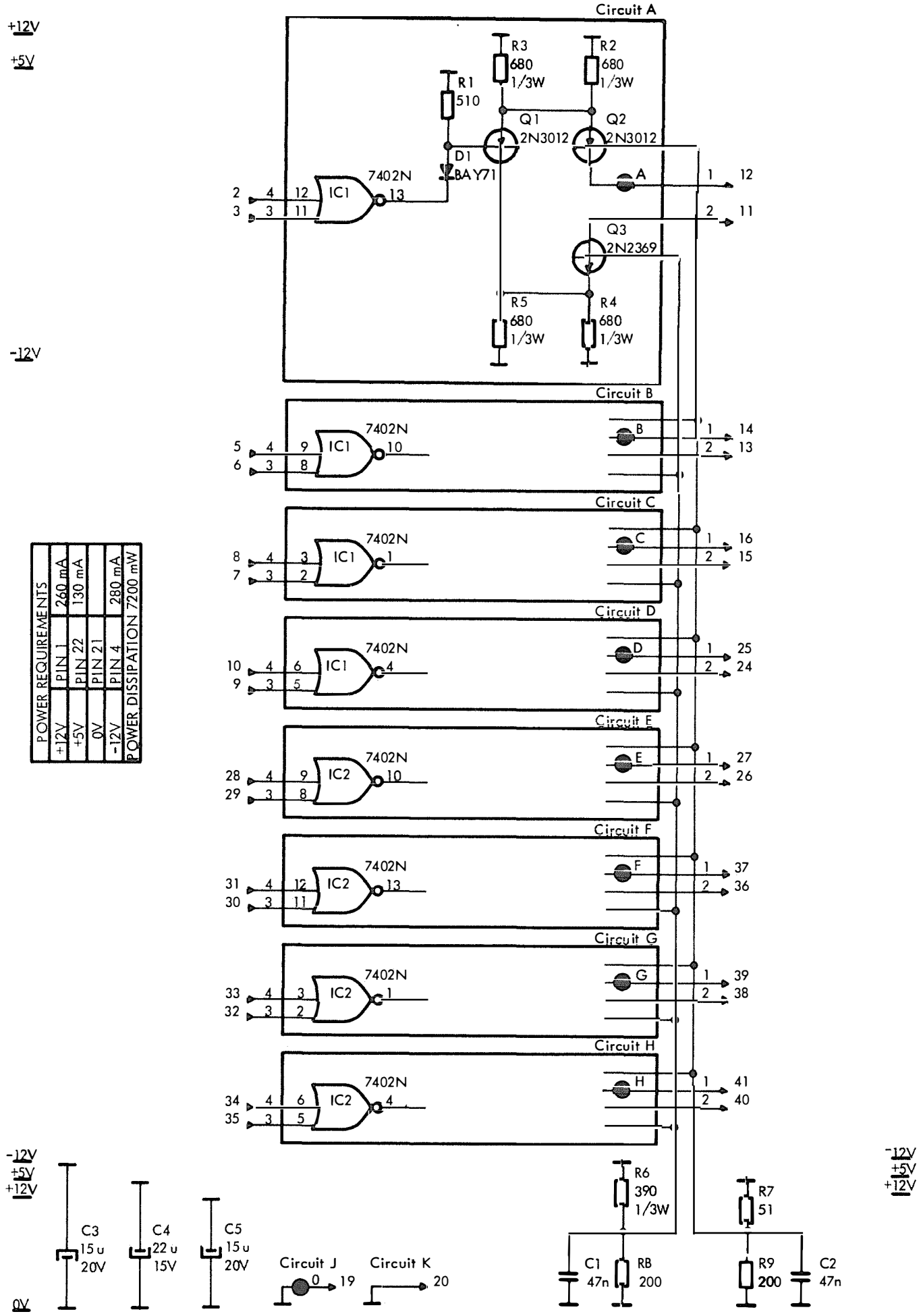
RC4000 RC0931 - 2

V12483 PCBA Circuit Diagram p2 of 2p


Circuit A
Circuit B
Circuit C
Circuit D
Circuit E
Circuit F
Circuit G
Circuit H
Circuit J
Circuit K
Circuit L
Circuit M
Circuit N
7400N
IC1
IC2
IC3
R1
47
0V
+5V
C1
22 u
15V
C2
47 n
C3
47 n
C4
47 n
POWER REQUIREMENTS
+5V PIN 22 40 mA
0V PIN 21
POWER DISSIPATION 210 mW

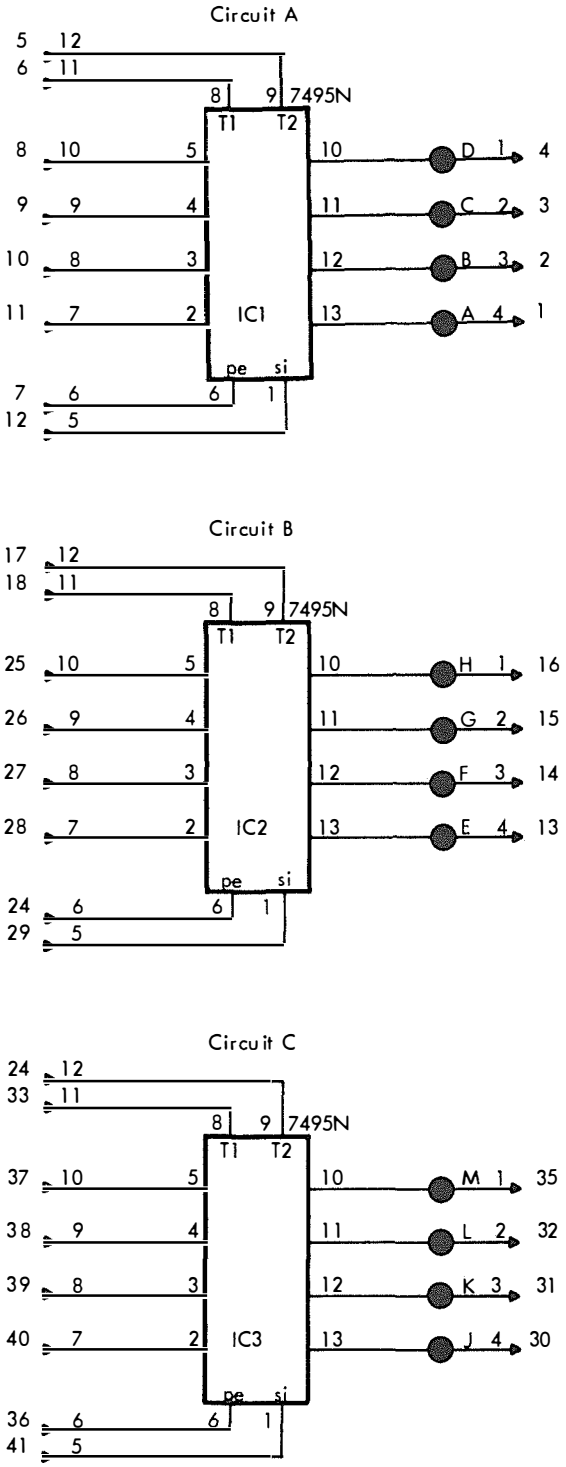


POWER REQUIREMENTS		
+5V	PIN 22	40 mA
0V	PIN 21	
POWER DISSIPATION 210 mW		

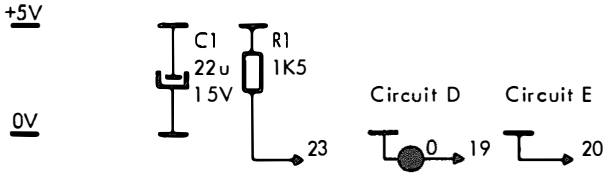


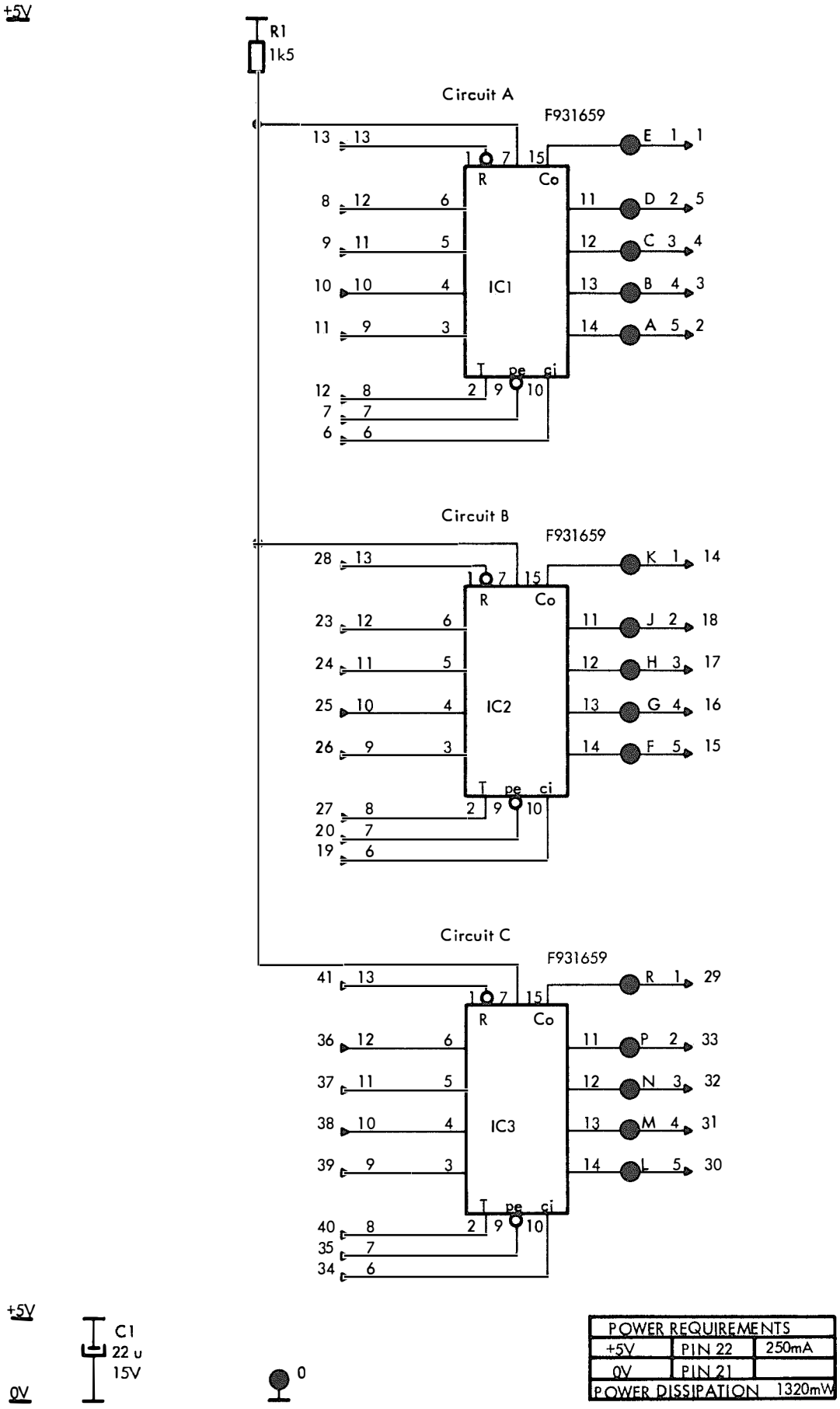
RCLM 400 8 DB 409 RC0933-1

V11696 PCBA Circuit Diagram

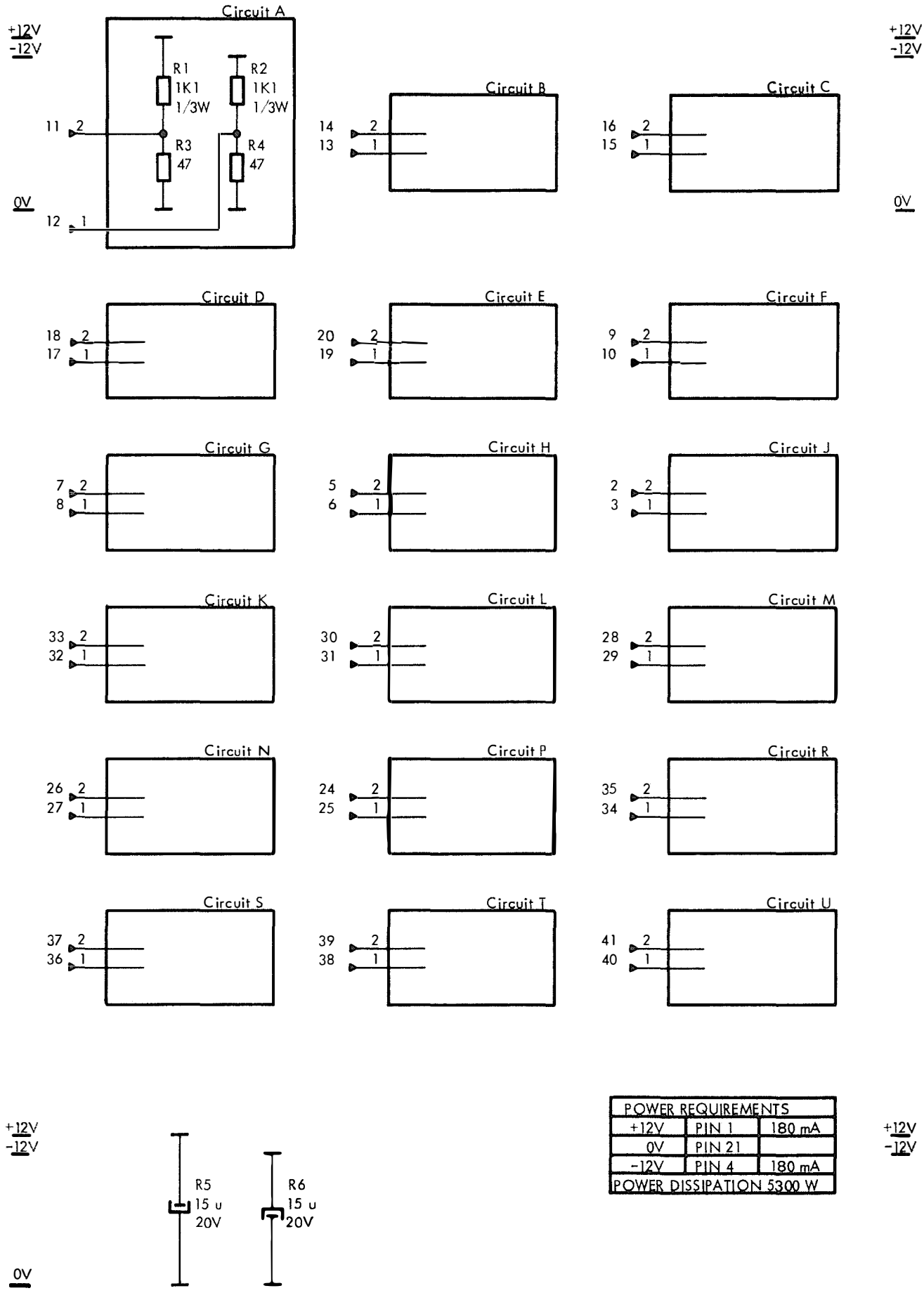


POWER REQUIREMENTS		
+5V	PIN 22	265 mA
0V	PIN 21	
POWER DISSIPATION 1400 mW		





POWER REQUIREMENTS		
+5V	PIN 22	250mA
0V	PIN 21	
POWER DISSIPATION		1320mW



POWER REQUIREMENTS		
+12V	PIN 1	180 mA
0V	PIN 21	
-12V	PIN 4	180 mA
POWER DISSIPATION 5300 W		

RCLM400

V13492

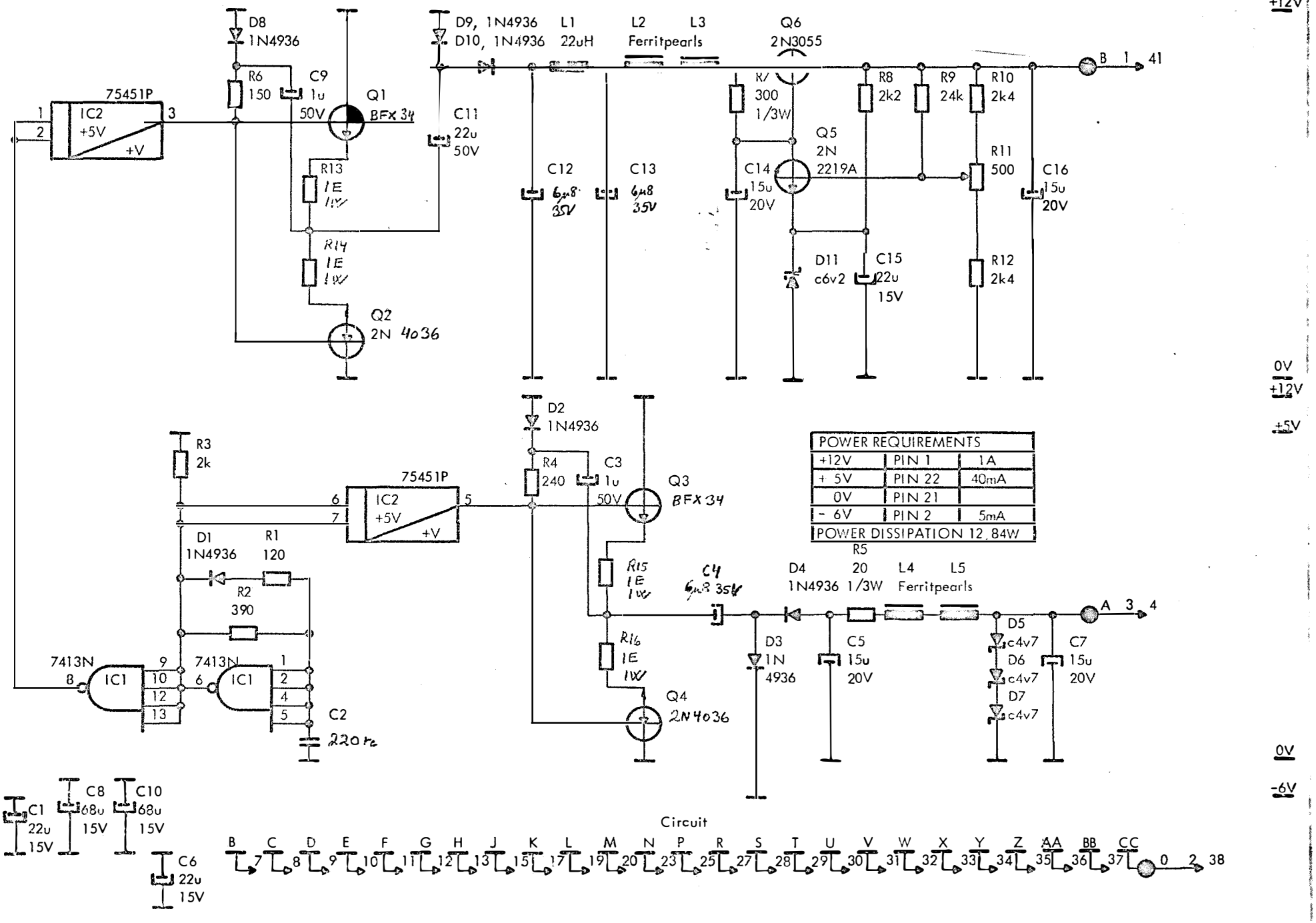
PCBA Circuit Diagram

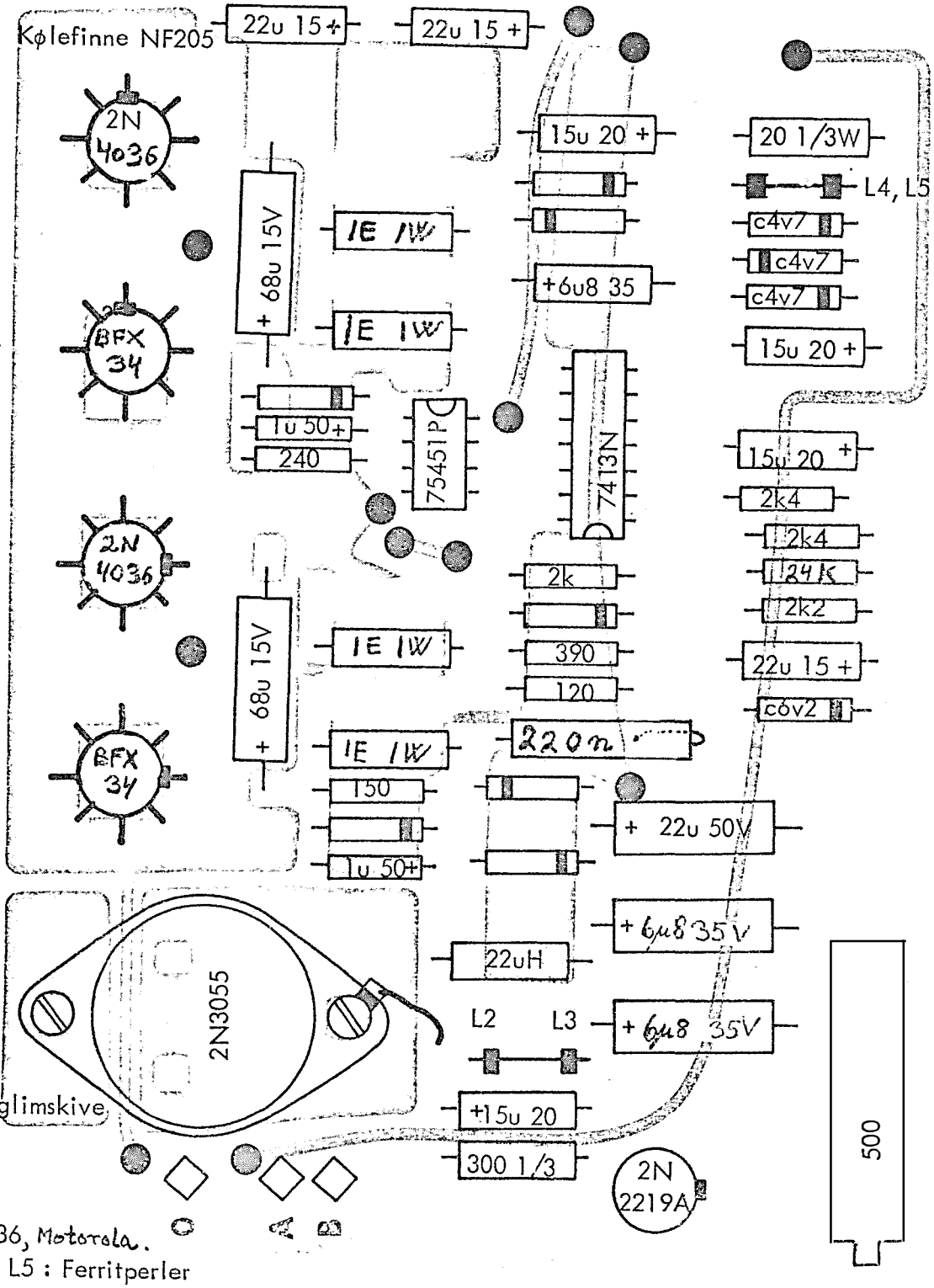
1SA427

RC2069 - 1

15.3.73 KS 150972AL 150972BA 16.3.73 KS

Circuit A

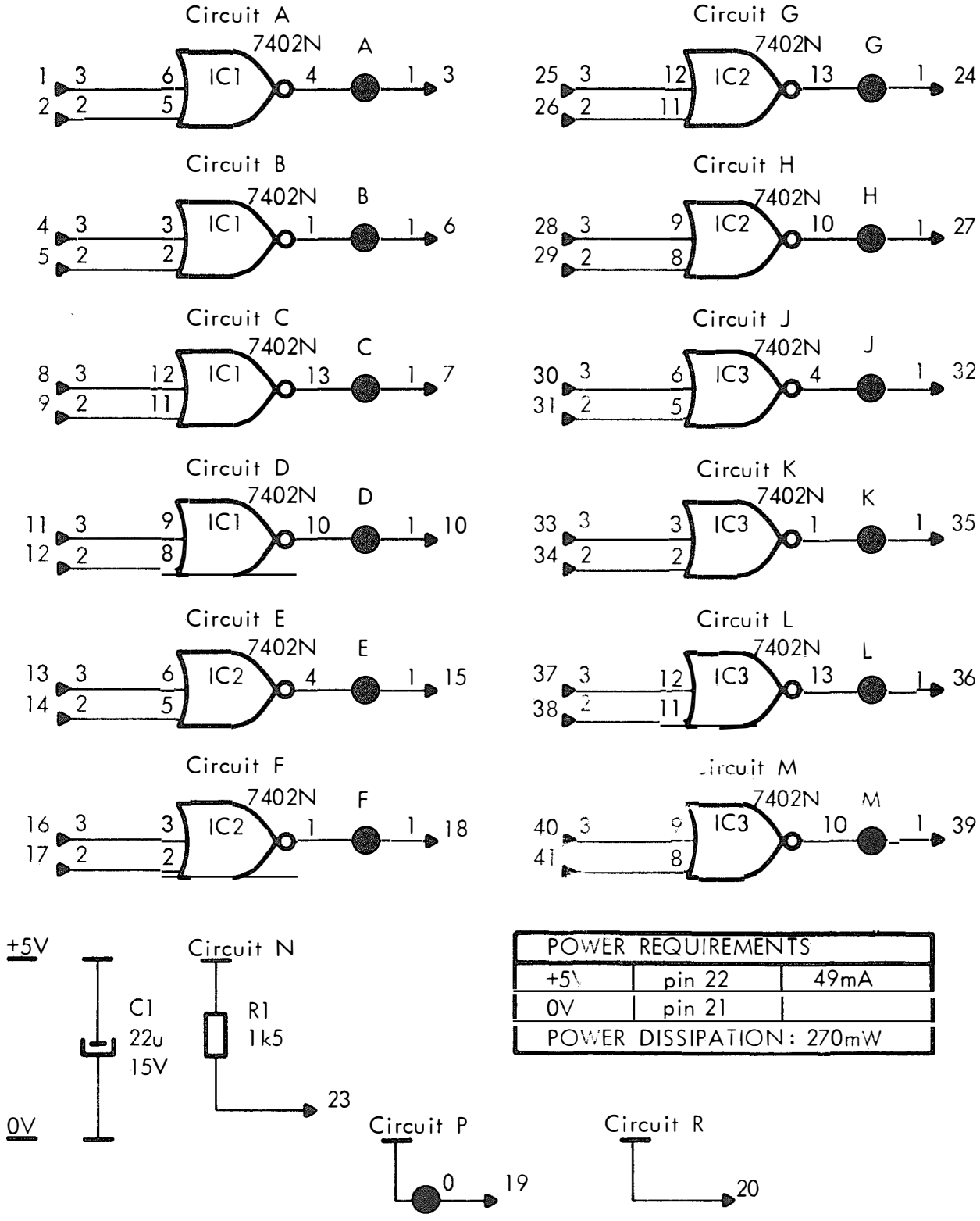




Monteres med glimskive

Dioder: 1N4936, Motorola.
L2, L3, L4 og L5 : Ferritperler

Unit: RCLM400	Designed	MONTERINGSTEGNING	Drawing No V23312
A/S REGNE CENTRALEN	Approved	RC2069 - 1	Drawn by
	Checked		Checked
	Last Revision		Sheets / Sheet



POWER REQUIREMENTS		
+5V	pin 22	49mA
0V	pin 21	
POWER DISSIPATION: 270mW		